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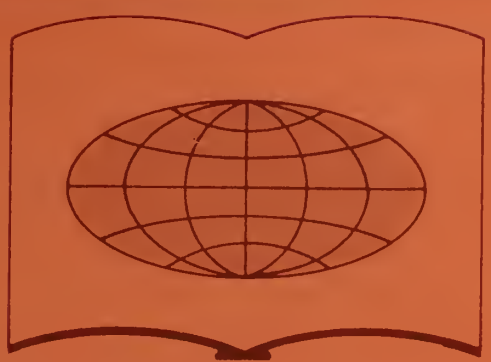

Volume 4 Number 17
AUGUST 16, 1968

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PESTICIDES DOCUMENTATION BULLETIN

A BI-WEEKLY PUBLICATION OF

U. S. DEPARTMENT OF AGRICULTURE

Volume 4 August 16, 1968 Number 17

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The Pesticides Documentation Bulletin is compiled by the Pesticides Information Center, the first of its kind to be established within a national library. It is a bi-weekly index to the literature on pests and their control and the impact on the economy and man's total environment. The index includes literature on diseases, insects, nematodes, parasites, weeds, and other pests affecting plants, animals, man, our natural resources, and other values in man's environment. Literature on biological, chemical, cultural ecological, mechanical, and integrated methods of pest control will be included. Special emphasis is given to the literature on the toxicological, physiological and epidemiological aspects of pests and their control by chemical and nonchemical methods.

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10 Entomology
20 Crop Protection
30 Livestock Protection
40 Commodity Protection
50 Environmental Contamination
55 Residues
60 Toxicology
65 Plant Physiology & Biochemistry
70 Chemistry
80 Engineering
90 Industry

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10 ENTOMOLOGY

16259-6B
EFFECT OF SOIL CLAY AND ORGANIC MATTER CONTENT UPON SYSTEMIC EFFICACY OF TWO CARBAMATE INSECTICIDES.
M A Abdellatif H P Hermanson H T Reynolds
J Econ Entomol 60(5):1445-1450
Oct 1967 421 J822
Aphididae, Biological assay, NIA 10242, Soil properties, Temik.

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NATURE'S PARADISE. QL336. B3.
J Bartlett D Bartlett
36D P. HODGHTON MIFFLIN, BOSTON
1967
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African wildlife and scenery, a photographic study; inclndes insects.

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FLUCTUATIONS IN NATURAL POPULATIONS OF DROSOPBILA WITH SPECIAL ATTENTION TO SEX RATIO.
J C Martin R Stevenson
W Va Acad Sci Proc 39:279-286,MAP REF
1967 500 W52
Chymomyza, Drosophila, Environment, Humidity, Insect behavior, Insect genetics, Leocophenga, Population statistics, Precipitation, Temperature.

16262-68
OBSERVATIONS ON THE LARVAE OF BIPPOTION CELERIO L. (LEPID., SPHINGIDAE IN TANZANIA. (ABSTRACT).
D G Sevastopnlo
Entomologist (london) 1D1(125B):5D
Mar 196B 421 EN8
Acherontia, Choerocampinae, Coelonia fulvinotata, Herse convolvuli, Bippotion celerio, Larvae, Light, Macroglossum, Noctnidae, Research, Rhopalocera, Sphingidae.

16263-68
ECONOMICS OF BIOLOGICAL CONTROL.
F J Simmonds
Pans (pest Articles Rews Sum) Sect A Insect Contr
14(2):207-215
May 196B 423.92 G798
Agricultural ontlook, Agricnltural research, Biological control (pests), Insects, Methodology, Natural control (insects), Weeds.

Systematics

16264-68
STUDIES ON THE ERADICATION OF ANOPHELES PHAROENSIS THEOBALD BY THE STERILE-MALE TECHNIQUE USING COBALT-60. VI. SPERM ACTIVITY IN MALES IRRADIATED WITH THE STERILIZING DOSE.
A A Abdel-Malek A C Tantawy A M Wakid
J Econ Entomol 60(5):1300-13D2
Oct 1967 421 J822
Anopheles, Culicidae, Sterilization.

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A SUGGESTED METBOD OF COLLECTINGS INSECTS ASSOCIATED WITB FORAGE GRASS SEED PRODDCTION.
R M Ahring D E Honell
J Econ Entomol 61(4):975-981 REF
15 Aug 1968 421 JB22
Forage plants, Grasses, Insect cages, Insect collecting equipment, Insect identification, Insect taxonomy, Insect traps, Reprodnction, Seedlings.

16266-68
BOLL WEEVIL ANTIBIOSIS STUDIES WITH SELECTED COTTON LINES UTILIZING EGG-IMPLANTATION TECHNIQUES.
J C Bailey F G Maxwell J N Jenkins
J Econ Entomol 60(5):1275-1279
Oct 1967 421 JB22
Anthonomus grandis, Antibiosis, Cotton.

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MORTALITY OF BOLL WEEVILS IN SQDARES OF GENOTYPICALLY DIFFERENT LINES OF COTTON.
J C Bailey F G Maxwell J N Jenkins
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Anthonomus grandis, Insect morphology, Mortality.

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INFORMATION ON STREAM INHABITING CHIRONOMIDAE OF HUNGARY. (GE
A von Berczik
Acta Zool (budapest) 14(1-2):15-25 REF
1968 410 AC85
Aquatic insects, Chironomidae, Insect anatomy, Insect taxonomy.

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TEN NEW CHRYSOMELID BEETLES FROM DOMINICA AND JAMAICA.
D H Blake
Entomol Soc Wash Proc 7D(1):60-67
Mar 1968 42D W27
Chrysomelidae, Insect anatomy, Insect identification, Insect taxonomy.

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NOTES ON THE SIPHONAPTERA OF NEW BRUNSWICK.
N R Brown
Can Entomol 10D(5):486-498 REF
May 196B 421 C16
Birds, Insect taxonomy, Mammals, Siphonaptera, Wildlife, Zoogeography.
Abstract: A complete list of the 29 species of fleas known from New Brunswick is presented, including several species not previously recorded and one previously undescribed species. New records are listed, with host data for most of the species.

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D S Bunn
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E C Burts W R Fischer
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Insect behavior, Psylla.

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THE LIFE CYCLE OF HYPERA BRUNNEIPENNIS AND A PARASITE, BATBYPLECTES CURCULIONIS, IN RELATION TO TEMPERATURE.
G D Bntler Jr P L Ritchie Jr
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Hypera, Insect morphology, Insect temperature.

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IDENTIFICATION AND FUNCTIONS OF SECRETION FROM THE POSTERIOR SCENT GLAND OF FIFTH INSTAR LARVA OF THE BUG DYSDERCUS INTERMEDIUS.
D B Calam A Youdeowei
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Aug 1968 421 J825
Cell division, Chromatography, Dysdercns intermedius, Hemiptera, Hydrocarbons, Larvae, Pyrrhocoridae, Scent glands, Secretion, Spectrometry.

16275-68
A REVISION OF THE MEXICAN AND CENTRAL AMERICAN SPECIES OF ISOMIRA (COLEOPTERA: ALLECULIDAE).
J M Campbell
Can Entomol 100(5):449-469
May 1968 421 C16
Alleculidae, Insect taxonomy, Isomira.
Abstract: New species are: Isomer championi, I. howdeni; I. rotnndata, I. mexicanus, I. acuta, and I. alticola. New subspecies are: Isomira howdeni hidalgoensis, I.

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subaenea soror, I. s. punctata, and I. s. guatemalensis.
A key is presented for the determination of the taxa.

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TEMPERATURE EFFECT ON MORTALITY OF CONFUSED FLOUR 8EETLES, TREATED WITH CO2 OR NZ 8EFORE FUMIGATION.
S D Carlson
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Insect temperature, Mortality, Tribolium.

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R R Chalfant E R Mitchell
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DEVELOPMENTAL MORPHOLOGY OF THE ALIMENTARY CANAL OF HELIOTHIS ZEA (LEPIDOPTERA: NOCTUIDAE).
A R Chauthani P S Callahan
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Heliothis zea, Insect anatomy, Larvae, Nervous system, Pupae.

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H C Chiang A J Keaster G L Reed
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Araneida, Insect taxonomy, Spiders.
Abstract

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W M Ciesla J C Jr. 8ell
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Fomes annosus, Insect biology, Insect ecology, Ips pini, Pinus, Scolytidae, Zoogeography.

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S F Cook
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Cecidomyiidae, Chaohorus astictopus, Diptera,
Insect morphology, Limnology, Research, Water analysis.

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SMALL MAMMALS AND THEIR ECTOPARASITES FROM THE SCOTTISH ISLANDS OF HANDA (SUTHERLAND), MUCK, PARAY, SCALPAY AND SOAY (INNER HE8RIDES).
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Linn Soc London J Zool 47(312):301-307
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Acarina, Anoplura, Mammals, Parasitic insects, Rodents, Siphonaptera, Surveys.
Abstract

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GLUTAMIC ACID REQUIREMENTS OF THE SAW-TOOTHED GRAIN 8EETLE, ORYZAEPHILUS SURINAMENSIS (L.) (COLEOPTERA, SILVANIDAE).
G R F Davis
Compar 8iochem Physiol 24(2):395-4D1 REF
Feb 1968 444.8 C73
Aspartic acid, Cytosine, Diet, Glutamic acid, Gnanine, Insect physiology, Oryzaephilus surinamensis, Putrescine.

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NOTES ON SOME HYMENOPTERA OF PORTUGAL--V. (POR)
M de A Diniz
Coimbra Univ Mus Zool Mem Estud 296:1-4
1966 41D.9 C66
Insect taxonomy, Sphecidae.
Portuguese abstract

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TWO NEW SPECIES OF THE GENUS EWINGANA (ACARINA: MYORIIDAE) FROM CU8A.
F Dushahek
Folia Parasitol 15:67-74 REF
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Ewingana, Mites, Myohiidae, Taxonomy.
Abstract: E. yaguajayensis sp. n. from Tadarida laticaudata yucatanica (Miller) and E. molossi sp. n. from Molossus major tropidorhynchus Gray. Jameson's synonymy (1955) of the genus Ewingana Radford, 1948 with the genus Acanthophthirius Perkins 1925 proved to be incorrect, likewise the synonymy of the species E. bispinosa Radford, 1948, with the species Myohia longa Ewing, 1938. Includes a key to the species of Ewingana Radford, 1948.

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J L Eaton J G Sterhnrg
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Oct 1967 421 J822
Insect physiology, Insect temperature, Periplaneta.

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W Eichler D R Arthnr H Hoogstraal J Lachmajer
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Insect taxonomy, Ixodides, Zoogeography.
Check list
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A F Emeljanov
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Cicadellidae, Insect taxonomy, Stirellini.
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inclndes new species.

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NOTES ON NEOTROPICAL TARANIDAE (DIPTERA). VII. THE SPECIES DESCRIBED RY C.R.W. WIEDEMANN.
G R Fairchild
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15 Mar 1967 421 P11
Insect taxonomy, Tahanidae, Zoogeography.
Abstract

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R G Fennah
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15 Mar 1967 421 P11
Fnlgoroidea, Homoptera, Insect taxonomy, Zoogeography.
Describes a new genus, 27 new species, and 4 new snbspecies.
Abstract

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ASPECTS OF ORIENTATION 8EHAVIOR IN THE AMBROSIA 8EETLE TRYPODENDRON LINEATUM (OLIVIER).
F C Francia K Graham
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Nov 1967 470 C16D
Attractants, Insect behavior, Insect flight, Scolytidae, Stimulants, Trypodendron lineatum.
Abstract: Levels of activity affected hy light, temperature, odor, air flow, and gravity. Photic stimuli are

important factors. Living host tree contains neither attractants nor repellants, but a felled or dying tree of appropriate species contains a primary olfactory attractant for beetles.

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USE OF DAPHNIA MAGNA FOR THE MICRORIOASSAY OF PESTICIDES. I. DEVELOPMENT OF STANDARDIZED TECHNIQUES FOR REABING DAPHNIA AND PBEPARATION OF DOSASE-MORTALITY CURVES FOR PESTICIDES.
D E H Frear J E Royd
J Econ Entomol 60(5):122B-1236
Oct 1967 421 J822
Ddt, Heptachlor, Insect rearing, Pesticide residues, Ronnel, Toxaphene.

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USE OF DAPRNIA MAGNA FOR THE MICRORIOASSAY OF PESTICIDES. II. COMPARISON OF MICBOBIOASSAY WITH GAS CHROMATOGRAPHY FOR ANALYSIS OF PESTICIDE RESIDUES IN PLANT EXTRACTS.
D E H Frear N S Kawar
J Econ Entomol 60(5):1236-1239
Oct 1967 421 J822
Ddt, Ethion, Lindane, Pesticide residues.

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STERILITY IN HOUSE FLIES OFFERED A CHOICE OF UNTREATED DIETS AND DIETS TREATED WITH CHEMOSTERILANTS.
R L Fye G C LaBrecque
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Chemosterilants, Insect nutrition, Musca domestica.

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U Gerson
Ann Mag Natnr Rist 02(3):429-437 REF
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Citrus, Insect taxonomy, Mites, Predaceons insects, Tetranychidae.

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CONTRIBUTION TO THE KNOWLEDGE OF THE CURCULIONIDS OF THE WESTERN MEDITERRANEAN REGION. III. THE PSEUDOTORNEUMA OF THE BALEABIC ISLANDS. (SP)
M Gonzalez
Spain Inst Biol Apl Publ 41:103-108 REF
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Curculionidae, Insect taxonomy, Pseudotornenma.
English and spanish abstracts,

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FIELD TESTS WITH REPELLENT-TREATED NETTING AGAINST BLACK SALT-MARSH MOSQUITOES.
H K Gouck D R Godwin C E Schreck N Smith
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Oct 1967 421 J822
Aedes, Culicidae, Insect repellents.

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SOME TINEID MOTHS OF THE ETHIOPIAN REGION IN THE COLLECTIONS OF TBE BRITISH MUSEUM (NAT. RIST.). I.
L A Gozmany
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1968 410 ACB5
Insect anatomy, Insect taxonomy, Tineidae.

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TWO NEW MALLOPHAGA SPECIES OF THE GENUS ARDEICOLA CLAY, 1935 (ISCHNOCERA: PHILOPTERIDAE).
K P Hajela B K Tandan
Entomol Soc Amer Ann 61(1):146-151
15 Jan 1968 420 EN82
Ardeicola, Birds, Feathers, Insect taxonomy, Mallophaga, Philopteridae.

16303-68
LABORATORY STUDIES OF SEX ATTRACTION IN TBE BOLL WEEVIL.
D D Hardee E R Mitchell P M Huddlston
J Econ Entomol 60(5):1221-1224
Oct 1967 421 J822
Anthonomus grandis, Attractants, Insect biology.

163D4-68
NOTES ON THE CBRYSOMELIDAE OF SOVIET ARMENIA. (FR)
S M Iablokoff-Khnzorian
Soc Entomol France Ann 4(2):259-277 REF
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Chrysomelidae, Insect taxonomy.
Abstract

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THE ATTRACTIVENESS OF FEMALE TO MALE PEACH TREE BORERS.
S W Jacklin C E Yonce J P Hollon
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Insect behavior, Sanninoidea, Sex attractants.

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R A Kimerle N H Anderson
J Econ Entomol 6D(5):1255-1259
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Aquatic insects, Insect traps.

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ADDITIONAL EVIDENCE THAT APHIDS INGEST TBROUGH AN OPEN STYLET SHEATR.
M G Kinsey
Entomol Soc Amer Ann 60(6):1263-1265
Nov 1967 420 EN82
Aphididae, Insect anatomy, Insect nutrition.

16308-68
ORSERVATIONS ON THE BREEDING OF LYCOPHOTIA MOLOTHINA (LEPIDOPTERA, NOCTUIDAE). (GE)
L Kobes
Entomol Z 77(12):134-141
15 Jun 1967 421 EN85
Insect biology, Insect rearing, Lycophotia molothina, Noctuidae, Reproduction.

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COMPARISON OF THE SOIL INHABITING COLEOPTERA FROM TWO OAK-RIRCH FORESTS. (GE)
W Kolbe
Entomol Z 78(12):140-144
15 Jun 196B 421 ENB5
Retula, Coleoptera, Forests, Insect ecology, Quercns, Soil insects.

16310-68
MODIFIED LABORATORY TECRNIQUES FOR PREPARING STERILE LARVAL DIETS FOR THE ROLL WEEVIL.
E N Lambremont A F Bennett R F Stanley
J Econ Entomol 60(5):1473
Oct 1967 421 J822
Anthonomus grandis, Insect nutrition, Sterilization.

16311-68
NEW GUINEA STAPHYLINIDAE (COLEOPTERA).
B B Last
Ann Mag Natnr Hist 02(3):345-375
Jul 1968 410 AN77
Coleoptera, Insect taxonomy, Staphylinidae.
Abstract

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A NEW PLEOTRICROPHORUS LIVING OF ERIGERON. (BOM. APHIDIDAE). (FR)
F Leclant
Soc Entomol France Ann 4(2):365-370
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Aphididae, Erigeron, Insect anatomy, Insect taxonomy, Pleotrichophorus.
Abstract

16313-68
NOTES ON TRE STUDY OF SPRINGIDAE OF VENEZUELA. (LEP. HETEROCERA). (SP)
R Lichy
Soc Entomol France Ann 11(2):437-448 REF
1966 420 FB4
Insect taxonomy, Sphingidae, Zoogeography.
French abstract

16314-68
NEW CANADIAN BRACONIDAE (HYMENOPTERA).
W R M Mason
Can Entomol 1D0(7):715-728
Jnl 1968 421 C16
Braconidae, Hymenoptera, Insect taxonomy.
Includes new species.
Abstract

16315-68
INFLUENCE OF CONSTITUENTS OF TBE COTTON PLANT ON FEEDING, OVIPOSITION, AND DEVELOPMENT OF TBE BOLL WEEVIL.
P G Maxwell J N Jenkins W L Parrott
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Oct 1967 421 J822

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Anthonomus grandis, Cotton, Insect morphology,
Insect nutrition.

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AN ANNOTATED KEY TO DROSOPHILID GENERA WITH BARE OR
MICROPUBESCENT ARISTAE AND A REVISION OF PARACACOXENUS
(DIPTERA: DROSOPHILIDAE).
J F McAlpine
Can Entomol 100(5):514-532 REF
May 1968 421 C16
Drosophilidae, Insect taxonomy, Paracacoxenus.

16317-68
CABBAGE MAGGOT RESISTANCE TO ORGANOCHLORINE INSECTICIDES.
F L McEwen H B Rinick Jr A C Davis B C Little Jr
J Econ Entomol 60(5):1261-1264
Oct 1968 421 J822
Aldrin, Cabbage, Chlordane, Dieldrin, Hylemya,
Insecticide resistant insects, Lindane.

16318-68
A NEW ABERRATION OF PIERIS BRASSICAE (LINN.)
LEPIDOPTERA, PIERIDAE.
L McLeod
Entomol Rec J Variation 80(5):127-129
May 1968 421 EN89
Butterflies, Culture media, Insect physiology,
Insect taxonomy, Pieris brassicae.

16319-68
GREENHOUSE AND LABORATORY SCREENING OF SORGHUM LINES FOR
RESISTANCE TO FALL ARMYWORM LARVAE.
W W McMillian K J Starks
J Econ Entomol 60(5):1462-1463
Oct 1967 421 J822
Plant nematode resistance, Sorghum, Spodoptera.

16320-68
AN ELECTROPHORETIC STUDY OF THE CHANGES IN PROTEINS IN THE
HAEMOLYMPH DURING THE LIFE CYCLE OF THE BOLL WEVIL,
ANTHONOMUS GRANDIS (COLEOPTERA: CURCULIONIDAE).
N Mitlin G J Lusk G Wiygul
Entomol Soc Amer Ann 60(6):1155-1158
Nov 1967 420 EN82
Anthonomus grandis, Insect physiology, Proteins.

16321-68
UTILIZATION OF TRICARBOXYLIC ACID CYCLE INTERMEDIATES BY
HAEMONCHUS CONTORTUS LARVAE.
K E Moon P J Schofield
Compar Biochem Physiol 24(2):581-590 REF
Feb 1968 444.8 C73
Amino acids, Chemorgy, Haemonchus contortus,
Insect metabolism, Insect physiology,
Isocitrate dehydrogenase, Larvae, Radioactive tracers,
Tricarboxylic acid cycle.

16322-68
INHIBITION BY 5-FLUOROOROTIC ACID OF THE OVARIAN DEVELOPMENT
OF HOUSE FLIES, MUSCA DOMESTICA.
P R Morgan
Entomol Soc Amer Ann 60(6):1158-1161
Nov 1967 420 EN82
Fluoroorotic acid, Insect eggs, Musca domestica.

16323-68
TWO NEW SPECIES OF DROSOPHILA OF THE SALTANS GROUP
(DROSOPHILIDAE, DIPTERA). (POR)
C A Mourao H E Melara M de C Ricudo
Sao Paulo Dep Zool Papeis Avulsos 20(12):123-134 REF
11 Jul 1967 410.9 SA63
Drosophilidae, Insect taxonomy, Reproductive organs.
English abstract
Abstract

16324-68
COMPARATIVE FINE STRUCTURE OF SCLEROTIZED AND UNSCLEROTIZED
INTEGUMENT OF THE RABBIT TICK, HAEMAPHYSALIS
LEPORIPALUSTRIS (ACARI: IXODIDES: IXODIDAE).
M E Nathanson
Entomol Soc Amer Ann 60(6):1125-1135
Nov 1967 420 EN82
Insect anatomy, Ixodides.

16325-68
NEW THEREVIDAE FROM ARGENTINA.
H Oldroyd
Ann Mag Natur Hist 02(3):377-385
Jul 1968 410 AN77
Diptera, Insect taxonomy, Therevidae.

16326-68
MEASURING ASPECTS OF ANTIBIOSIS IN COTTON LINES TO THE
BOLLWORM.
B P Oliver F G Maxwell J N Jenkins
J Econ Entomol 60(5):1459-1460
Oct 1967 421 J822
Anthonomus grandis, Antibiosis, Cotton.

16327-68
TO THE KNOWLEDGE OF THE GENUS CULICOIDES LATR. 1809
(DIPTERA, CERATOPOGONIDAE) IN CZECHOSLOVAKIA.
I Orszagh
Folia Parasitol 15(00):179-181
1968 436.8 C33
Ceratopogonidae, Culicoides, Insect taxonomy, Zoogeography.
Abstract

16328-68
LEPTOMONAS OESTRI N.SP., A FLAGELLATE PARASITE OF THE
DIGESTIVE TRACT OF OESTRUS OVIS. (IT)
S Pampiglione
Parassitologia 9(2):89-100 REF
Oct 1967 436.8 P212
Gastrointestinal system, Insect diseases, Larvae, Oestridae,
Parasitism, Trypanosomidae.
English and italian abstract
Abstract

16329-68
OLIGIDIC DIETS FOR ACHETA DOMESTICUS (ORTHOPTERA:
GRYLLIDAE).
B L Patton
Entomol Soc Amer Ann 60(6):1238-1242
Nov 1967 420 EN82
Acheta, Gryllidae, Insect nutrition.

16330-68
MORTALITY OF NASAL BOTS IN SHEEP TREATED WITH SYSTEMIC
INSECTICIDES.
B E Pfadt
J Econ Entomol 60(5):1420-1422
Oct 1967 421 J822
Dichlorvos, Fenthion, Mortality, Oestridae, Sheep.

16331-68
DISPERSAL PATTERNS AND POPULATIONS OF THE HOUSE FLY AFFECTED
BY SANITATION AND WEATHER IN RURAL MARYLAND.
L G Pickens N O Morgan J G Hartsock J N Smith
J Econ Entomol 60(5):1250-1255
Oct 1967 421 J822
Insect behavior, Musca domestica, Population.

16332-68
NOTES ON SOME AUSTRALASIAN MUSCIDAE (DIPTERA) DESCRIBED
BY J. MACQUART.
A C Pont
Soc Entomol France Ann 3(1):181-190 REF
1967 420 F84
Insect taxonomy, Muscidae.
French abstract

16333-68
AUTOCIDAL CONTROL OF THE CODLING MOTH BY RELEASE OF MALES
AND FEMALES STERILIZED AS ADULTS BY GAMMA RADIATION.
M D Proverbs J R Newton D M Logan
J Econ Entomol 60(5):1302-1306
Oct 1967 421 J822
Biological control (insects), Carpocapsa, Gamma rays,
Sterilization.

16334-68
AMINO ACID REQUIREMENTS AND SULFUR AMINO ACID METABOLISM IN
THE PEA APHID, ACYRTHOSIPHON PISUM (HARRIS).
A Retnakaran S D Beck
Compar Biochem Physiol 24(2):611-619 REF
Feb 1968 444.8 C73
Acyrthosiphon pisum, Amino acids, Biochemistry, Cystathionine,
Cystine, Insect metabolism, Metabolism, Methionine, Sulfur.

16335-68
ESTIMATION OF CARCASS ANALYSIS OF THE GROWTH REQUIREMENTS
FOR AMINO ACIDS IN THE CODLING MOTH, CARPOCAPSA POMONELLA
(LEPIDOPTERA: OLETHREUTIDAE).
G C Rock K W King
Entomol Soc Amer Ann 60(6):1161-1162
Nov 1967 420 EN82
Amino acids, Insect nutrition, Olethreutidae.

16336-68
BIOLOGICAL AND INTEGRATED CONTROL OF CITRUS PESTS IN ISRAEL.
D Rosen
J Econ Entomol 60(5):1422-1427
Oct 1967 421 J822
Biological control (insects), Chrysomphalus, Citrus, Integrated control (insects).

16337-68
ALTICINAE OF GUADALOUPE (COL. CHRYSOMELIDAE). (GE)
G Scherer
Soc Entomol France Ann 3(1):215-220
1967 42D F84
Chrysomelidae, Insect taxonomy.
French abstract

16338-68
AN ENVIRONMENTAL CABINET WITH VARIABLE AIR VELOCITY FOR INSECT STUDIES.
K R Scott
Can Entomol 100(1):89-93
Jan 1968 421 C16
Air flow, Equipment, Insect cages, Insect ecology, Temperature.

16339-68
SOME ECTOPARASITES FROM WEST VIRGINIA MAMMALS. II.
J P Shoemaker S J Joy
W Va Acad Sci Proc 39:78-8D
1967 50D W52
Acarina, Anoplura, Diptera, Insect taxonomy, Mammals, Parasitism.
Abstract: From June 9, 1966, to September 21, 1966, 65 West Virginia mammals were collected for parasitological examination. Nine species of ectoparasites new to the state were found: Mites, Haemogamassus liponyssoides on Blarina brevicauda; Hirstionyssus sp. and Laelaps kochi on Microtus pennsylvanicus; Ornithonyssus wernecki and Archemyobia inexpectatus on Didelphis marsupidis; Blarinohia simplex on Blarina brevicaudia; Listropborus sp. on Microtus pennsylvanicns. Lice, Hoplopleura hesperomydis on Peromyscus leucopus. Flies, Cuterebra peromysci on Peromyscus leucopus.

16340-68
INFLUENCE OF PHOTOPERIOD AND TEMPERATURE ON DIAPAUSE IN THE FACE FLY, MUSCA AUTUMNALIS (DIPTERA: MUSCIDAE).
J G Stoffolano Jr J G Mattbysse
Entomol Soc Amer Ann 60(6):1242-1246
Nov 1967 42D EN82
Insect biology, Muscidae.

16341-68
SPIDERS (PRODIDOMIDAE, ZODARIIDAE, AND SYMPHYTOGNATHIDAE) IN HAWAII.
T W Suman
Pacific Insects 9(1):21-27
15 Mar 1967 421 P11
Spiders, Taxonomy.
Abstract

16342-68
ON SOME NEW SPECIES OF TETRAMESA WALK., WITH NOTES ON THEIR PARASITES (HYMENOPTERA: CHALCIDOIDEA).
G Szelenyi
Acta Zool (hndapest) 14(1-2):213-224
1968 41D AC85
Cbalcididae, Hymenoptera, Insect biology, Insect taxonomy, Parasitic insects.

16343-68
SOME UNKNOWN DATA CONCERNING MINERS (LEPIDOPTERA).
J Szocs
Acta Zool (budapest) 14(1-2):225-231 REF
1968 41D AC85
Insect biology, Leaf miners, Lepidoptera.

16344-68
A TROPIC RELICT IN THE DESERT FAUNA OF BRACONIDS (HYMENOPTERA, BRACONIDAE) OF MIDDLE ASIA. (RU)
V I Tobias
Zool Zhur 47(2):304-305
Feb 1968 41D R92
Aphrastobracon jacobsoni, Braconidae, Insect taxonomy, Oriental region, Zoogeography.
English abstract.

16345-68
EGGS OF FLOODWATER MOSQUITOES (DIPTERA: CULICIDAE). XI. EFFECT OF MEDIUM ON HATCHING OF AEDES STICTICUS.
M Trpis W R Horsfall
Entomol Soc Amer Ann 60(6):1150-1152
Nov 1967 42D EN82
Aedes, Culicidae, Culture media, Insect cultures, Insect eggs.

16346-68
HETEROTYLENCHUS AUTUMNALIS NICKLE (1967)--A PARASITE OF PASTURE FLIES.
I Vilagiova
Biologia (bratislava) 23(5):397-400
1968 442.8 B5265
Heterotylenchus autumnalis, Musca autumnalis, Muscidae, Nematodes, Parasitism, Pastures.
Englisb and czecboslovakian abstracts.
Abstract

16347-68
NEW GENERA, NEW SPECIES OF AFRICAN HEMIPTERA, REDUVIIDAE. (FR
A Villiers
Soc Entomol France Ann 3(1):137-149
1967 42D F84
Insect taxonomy, Reduviidae.
Abstract

16348-68
MOSQUITOES OF THE GENUS CULISETA IN CONNECTICUTT (DIPTERA: CULICIDAE).
R C Wallis L Whitman
Entomol Soc Wash Proc 70(2):187-188
Jun 1968 420 W27
Culicidae, Culiseta, Entomology, Insect identification, Insect taxonomy.

16349-68
PYRUVATE KINASE IN HAEMONCHUS CONTORTUS LARVAE.
C W Ward P J Schofield I L Johnstone
Compar Biochem Physiol 24(2):643-647 REF
Feb 1968 444.8 C73
Biological assay, Haemonchus contortus, Insect metabolism, Larvae, Parasites, Pyruvate kinase.

16350-68
THE DISTRIBUTION OF DERMACENTOR TICKS IN CANADA IN RELATION TO BIOCLIMATIC ZONES.
P R Wilkinson
Can J Zool 45(4):517-537 REF
Jul 1967 470 C16D
Dermacentor albipictus, Dermacentor andersoni, Dermacentor variabilis, Insect dissemination, Ixodides, Microclimate.

16351-68
CONTROL IMPLICATIONS OF A BEHAVIORAL TRAIT IN MALE HORN FLIES.
R Witherspoon E C Burns
J Econ Entomol 60(5):1280-1282
Oct 1967 421 J822
Insect behavior.

16352-68
NEW RECORDS AND SPECIES OF NEOTROPICAL BARK BEETLES (SCOLYTIDAE: COLEOPTERA), II.
S L Wood
Great Basin Natur 27(3):119-141
30 Nov 1967 410 G79
Insect taxonomy, Scolytidae, Trees.

Physiology and Biochemistry

16353-68
A PHYSIOLOGIC DIFFERENCE IN APHIDS (HOMOPTERA) RAISED ON EXCISED LEAVES AND ON INTACT PLANTS.
J R Adams
Can J Zool 45(4):588-590
Jul 1967 470 C16D
Aphididae, Crop varieties, Homoptera, Insect adaptation, Insect nutrition, Insect physiology, Leaves.

10 16354-68

16354-68
LEFT COLLETERIAL PROTEINS IN THE VIVIPAROUS COCKROACH NAUPHOETA CINEREA.
K G Adiyodi
J Insect Physiol 14(3):309-316
Mar 1968 421 J825
Biochemistry, Electrophoresis, Glands (insects), Hormones, Insect physiology, Naupaoeta cinerea, Proteins.

16355-68
A WATER-SOLUABLE FACTOR IN MELILOTUS OFFICINALIS LEAVES WHICH STIMULATES FEEDING BY THE ADULT SWEETCLOVER WEEVIL.
W R Akeson H J Gorz F A Haskins G R Manglitz
J Econ Entomol 61(4):1111-1112
15 Aug 1968 421 J822
Biological assay, Chromatography, Extracts, Feeding, Insect behavior, Leaves, Sitona cylindricollis, Stimulants, Water, Yellow sweetclover.

16356-68
PATTERNS OF STRUCTURAL DIVERSITY IN THE MALES OF SOME PHLAEOPHILOUS TUBULIFERA. (THYSANOPTERA).
T N Ananthakrishnan
Soc Entomol France Ann 4(2):413-418
1968 420 F84
Antennae, Insect morphology, Thysanoptera.
French abstract

16357-68
THE BIOLOGY AND ECOLOGY OF ANAPHES FLAVIPES (HYMENOPTERA: MYMARIDAE), AN EXOTIC EGG PARASITE OF THE CEREAL LEAF BEETLE.
E C Anderson J D Paschke
Entomol Soc Amer Ann 61(1):1-5 REF
15 Jan 1968 420 EN82
Anaphes flavipes, Insect behavior, Insect biology, Insect ecology, Insect eggs, Mymaridae, Oats, Oulema melanopus, Parasitic insects, Wheat.
Abstract: Virgin females of the parasite Anaphes flavipes produced male progeny, while both sexes emerged from eggs parasitized by mated individuals. Development occurred exclusively in pre-embryonated host eggs. Parasitized Oulema eggs from which Anaphes were reared or dissected, an average of 3.3 parasites per egg was evidenced at an over all female:male sex ratio of 3:1. Parasitized Oulema ova, found in nearly all wheat and oats fields where significant populations of the beetle occurred were obtained from early May through late July.

16358-68
EUROPEAN RED MITE AND TWO-SPOTTED SPIDER MITE CONTROL ON APPLE TREES.
D Asguith
J Econ Entomol 61(4):1044-1046
15 Aug 1968 421 J822
Acaricides, Apples, Biochemistry, Chemical control (insects), Insecticides, Panonychus ulmi, Tetranychus urticae, Trees.
Abstract: Insecticides used were: Plictran, Azodrin, CS-19851, NC-5016, and Tranid were highly effective in control of both species. Omite (2-(p-tert-butylphenoxy) cyclohexyl 2-propynyl sulfite) EC was as effective as the former group of acaricides in control of the European red mite, but it was not quite so effective in control of the two-spotted spider mite.

16359-68
NOSEMA APIS AND DYSENTERY OF THE HONEYBEE.
L Bailey
J Apicult Res 6(3):121-125
1967 424.8 J82
Apis mellifera, Dysentery, Insect diseases, Nosema apis, Nosema disease, Social insects.

16360-68
VARIATIONS OF PHOSPHOLIPIDS IN THE COURSE OF METAMORPHOSIS OF TRIBOLIUM CONFUSUM (COLEOPTERA). (FR)
A R Beaudoin J L Villeneuve A Lemonde
J Insect Physiol 14(6):831-840 REF
Jun 1968 421 J825
Chromatography, Extracts, Larvae, Lipids, Metamorphosis, Phospholipids, Silicic acid, Tribolium confusum.
Abstract in English
Abstract: Phosphatidylcholine and phosphatidylethanolamine were the major constituents. The major changes were noted at the time of pupation and adult emergence. Significance of these variations is discussed.

16361-68
ESTIMATION OF OVIPOSITION BY THE FIR ENGRAVER, SCOLYTUS VENTRALIS (COLEOPTERA: SCOLYTIDAE).
A A Berryman
Entomol Soc Amer Ann 61(1):227-228
15 Jan 1968 420 EN82
Abies grandis, Insect ontbreak forecasting, Insect populations, Ovulation, Regression analysis, Scolytidae, Scolytus ventralis, Statistical methods.

16362-68
A VIRUS DISEASE OF THE EUROPEAN RED MITE PANONYCHUS ULMI (KOCH).
F T Bird
Can J Microbiol 13(8):1131
Aug 1967 448.8 C162
Panonychus citri, Panonychus ulmi, Virus diseases (insects).

16363-68
TAXONOMY AND THE INTEGRATED CONTROL OF MITES. (POL)
J Boczek
Poznan Inst Ochrony Roslin Biul 36:73-85 REF
1967 464.9 P87
Insect ecology, Insect identification, Insect taxonomy, Integrated control (insects), Mites.
English and russian abstract
Abstract

16364-68
IMMUNOCHEMICAL ANALYSIS OF THE ORIGIN OF A SEX-SPECIFIC ACCUMULATED BLOOD PROTEIN IN FEMALE HOUSEFLIES.
R P Bodnaryk P E Morrison
J Insect Physiol 14(8):1141-1146
Aug 1968 421 J825
Blood proteins, Diffusion, Electrophoresis, Immunochemistry, Insect morphology, Larvae, Musca domestica.

16365-68
AN INTERESTING PARASITE OF THYSANOPTERA: TETRASTICHUS GENTILEI (HYM. CHALCIDIDAE). (FR)
A Bournier
Soc Entomol France Ann 3(1):173-179 REF
1967 420 F84
Diapause, Eulophidae, Hymenoptera, Insect morphology, Larvae, Parasitism, Tetrastichus gentilei, Thysanoptera.
Abstract

16366-68
RICE WATER WEEVIL RESISTANCE TO ALDRIN IN TEXAS.
C C Bowling
J Econ Entomol 61(4):1027-1030
15 Aug 1968 421 J822
Aldrin, Biochemistry, Chemical control (insects), Immunity, Insecticide application, Insecticides, Lissorhoptrus oryzophilus, Research, Seedlings.

16367-68
PYGIDIAL GLANDS IN MALE OPIUS (HYMENOPTERA: BRACONIDAE).
G R Buckingham
Entomol Soc Amer Ann 61(1):233-234
15 Jan 1968 420 EN82
Braconidae, Insect anatomy, Opius, Parasitic insects, Pygidial glands.

16368-68
CANDIDA SHEHATAE SP. N., A YEAST ASSOCIATED WITH WOOD-DESTROYING INSECTS.
B R Buckley N Van Uden
Mycopathol Mycol Appl 32(4):297-301
13 Sep 1967 450 M994
Candida shehatae, Culture media, Soil microorganisms, Wood-destroying insects, Yeasts.
This new species has been isolated in various parts of the world from insect-invaded wood, from the insect Leptura cerambyciformis, and soil.

16369-68
INVESTIGATIONS WITH THE NEW ORGANIC PHOSPHORUS COMPOUNDS. (POL
S Byrdy K Gorecki J Hurny
Poznan Inst Ochrony Roslin Biul 36:311-322
1967 464.9 P87
Chemical control (insects), Insect control, Organophosphorus compounds.
English and russian abstract
Abstract

16370-68
HORMONAL CONTROL OF THE WATER EQUILIBRIUM IN LOCUSTA MIGRATORIA MIGRATORIOIDES. (FR)
M Cazal A Girardie
J Insect Physiol 14(5):655-668 REF
May 1968 421 J825
Body fluids, Corpora cardiaca, Diuresis, Esophagus, Insect physiology, Locusta migratoria migratorioides, Malpighian tubes, Nervous system, Rectum.
English summary.

16371-68
TYPES OF FEEDING AND STRUCTURE OF MANDIBLES IN DIFFERENT LIFE FORMS OF GRASSHOPERS. (RU)
M E Chernyakhovskii
Zool Zhur 47(2):238-248
Feb 1968 410 R92
Acrididae, Feeding, Grasshoppers, Insect anatomy, Mouth parts, Tetrigidae, Tettigoniidae.
English abstract
Abstract

16372-68
THE DIEL OVIPOSITION PERIODICITY OF THE BLACK FLY, SIMULIUM VITTATUM.
P S Corbet
Can J Zool 45(4):583-584
Jul 1967 47D C16D
Insect behavior, Insect eggs, Ovipositors, Simuliidae, Simulium vittatum.

16373-68
THE INFLUENCE OF CONTROLLED ENVIRONMENTS AND GRASS HOSTS ON THE LIFE CYCLE OF ENDRIA INIMICA (HOMOPTERA: CICADELLIDAE).
T R Coupe J T Schulz
Entomol Soc Amer Ann 61(1):74-77
15 Jan 1968 420 EN82
Agropyron repens, Bromus inermis, Cicadellidae, Durum wheat, Endria inimica, Environment, Greenhouse culture, Light, Poa pratensis, Setaria viridis, Temperature.

16374-68
ANOPHELES (MYZOMYIA) SERGENTI THEOBALD FROM THE ISLAND OF PANTELLERIA AND ITS PROBABLE IMPLICATION IN THE TRANSMISSION OF MALARIA. (IT)
G D'Alessandro G Sacca
Parassitologia 9(2):69-72
Oct 1967 436.8 P212
Anopheles sergenti, Insect vectors, Malaria.
English and italian abstract
Abstract

16375-68
DIETARY AMINO ACID REQUIREMENTS OF THE APHID, MYZUS PERSICAE.
B H Dadd D L Krieger
J Insect Physiol 14(6):741-764 REF
Jun 1968 421 J825
Amino acids, Aphididae, Histidine, Insect nutrition, Isoleucine, Larvae, Methionine, Myzus persicae.

16376-68
EXPERIMENTAL SURVIVAL OF THE VIRUS TAHYNA IN HIBERNATING MOSQUITOES THEOBALDIA ANNULATA (SCHRK.).
V Danielova J Minar B Rosicky
Folia Parasitol 15:183-188
1968 436.B C33
Culicidae, Culiseta annnlata, Hibernation, Insect vectors, Tahyna virus.
Abstract

16377-68
STERILIZATION OF CULEX PIPIENS FATIGANS WIEDEMANN BY APHOLATE.
M Das
World Health Organ Bull 36(6):949-954 REF
1967 449.9 W892B
Alkylation, Apholate, Chemosterilants, Culex pipiens quinquefasciatus, Culicidae, Larvae, Pest control, Pupae, Sterility, Sterilization, Water treatment.
French summary

16378-68
QUANTITATIVE DIETARY REQUIRMENTS OF OBYZAEPHILUS SURINAMENSIS (L.) (COLEOPTERA: SILVANIDAE) FOR PHENYLALANINE AND TYROSINE.
G B F Davis
Can J Zool 46(3):469-473 REF
May 1968 470 C16D
Coleoptera, Diet, Glycine, Humidity, Insect nutrition, Oryzaephilus surinamensis, Phenylalanine, Temperature, Tyrosine.

16379-68
TESTICULAR AND HAEMOLYMPH AMINO ACIDS OF POECILOCERUS PICTUS (ACRIDIDAE).
T S S Dikshith K Vasuki S K Majumder
J Insect Physiol 14(3):367-370 REF
Mar 1968 421 J825
Amino acids, Biochemistry, Blood, Chromatography, Insect metabolism, Insect physiology, Poecilocerus pictus, Testes.

16380-68
LABORATORY BATCH PRODUCTION OF BACILLUS THURINGIENSIS SPORES AND CRYSTALS.
N R Dubois
Appl Microbiol 16(7):1098-1099
Jul 1968 448.3 AP5
Bacillus thuringiensis, Biological control (insects), Biological laboratories, Crystalliferous bacteria, Culture media, Porthetria dispar, Sporulation.

16381-68
ATTRACTIVENESS OF LOGS CONTAINING FEMALE SPRUCE BEETLES, DENDROCTONUS OBESUS (COLEOPTERA: SCOLYTIDAE).
E D A Dyer D W Taylor
Can Entomol 100(7):769-776 REF
Jul 1968 421 C16
Attractants, Dendroctonus obesus, Insect behavior, Insect morphology, Logs.
English and French abstracts

16382-68
SMALL CHAMBER TESTS OF ETHYLENE DIBROMIDE AND ETHYLENE DICHLORIDE ON ADULT GRAIN-INFESTING COLEOPTERA.
C R Ellis F O Morrison
Can J Zool 45(4):435-448 REF
Jul 1967 470 C16D
Coleoptera, Ethylene dibromide, Ethylene dichloride, Fumigation, Grain, Insecticide resistant insects, Oryzaephilus surinamensis, Sitophilus granarius, Tribolium confusum.

16383-68
ECOLOGICAL SIGNIFICANCE OF RESPIRATION AND SUBSTRATE FOR BURROWING EPHEMEROPTERA.
C H Eriksen
Can J Zool 46(1):93-103 REF
Jan 1968 470 C16D
Ephemera simulans, Ephemeroptera, Hexagenia limbata, Insect behavior, Insect ecology, Insect morphology, Insect respiration.

16384-68
WHOLE BODY TURNOVER OF POTASSIUM TRACED BY RADIORUBIDIUM IN ADULT DROSOPHILA (DROSOPHILIDAE) AND MEGASELIA (PHORIDAE).
L D Fairbanks G E Burch
J Insect Physiol 14(6):819-830 REF
Jun 1968 421 J825
Drosophila melanogaster, Drosophila repleta, Electrolytes, Feeding, Food, Megaselia scalaris, Potassium, Radioactive tracers, Radioactivity, Rubidium, Temperature.

16385-68
SOURCE OF THE TRAIL PHEROMONE AND METHOD OF TRAIL LAYING IN THE ANT CREMATOGASTER PERINGUEYI.
D J C Fletcher J M Brand
J Insect Physiol 14(6):783-788 REF
Jun 1968 421 J825
Assay, Attractants, Chromatography, Crematogaster peringueyi, Extracts, Formicidae, Hormones, Insect anatomy, Insect behavior, Pheromones, Scent glands.

16386-68
CHEMOSTERILIZATION OF THE TOBACCO BUDWORM: A SURVEY OF 21 COMPOUNDS APPLIED TOPICALLY.
H M Flint W Klassen E Kressin J Norland
J Econ Entomol 61(4):938-941 REF
15 Aug 1968 421 J822
Biochemistry, Chemosterilants, Dosage, Drug therapy, Experimental insects, Heliothis virescens, Sex, Sterilization.
Abstract: Some of the chemicals were: aziridines, methanesulfonates, nitrogen mustards, phosphoramides, and urea derivatives.

16387-68
DISTRIBUTION OF SPERM IN THE STORAGE ORGANS OF THE DROSOPHILA MELANOGASTER FEMALE AT VARIOUS LEVELS OF INSEMINATION.
G L Fowler K E Eroshevich S Zimmering
Z Vererbungslehre 101(2):120-122
1968 442.8 Z34
Animal morphology, Animal physiology, Drosophila melanogaster, Insemination, Reproduction, Spermatheca, Spermatozoa.

16388-68
HEXOSAMINE METABOLISM IN IMAGINAL DISKS OF DROSOPHILA MELANOGASTER.
J W Pristrom
J Insect Physiol 14(6):729-740 REF
Jun 1968 421 JB25
Chitin, Chromatography, Drosophila melanogaster, Glucosamine, Glucose, Hexosamines, Insect metabolism, Larvae, Metabolites.

16389-68
HISTOCHEMICAL LOCALIZATION OF CATECHOLAMINES IN THE BRAIN OF NORMAL AND DRUG-TREATED COCKROACHES.
N Frontali
J Insect Physiol 14(6):881-886 REF
Jun 1968 421 JB25
Brain, Catechol amines, Cells, Drug therapy, Fluorescence, Histochemistry, Periplaneta americana, Reserpine.

16390-68
CONTRIBUTION TO THE HISTOCHEMICAL STUDY OF THE DIGESTIVE ORGANS OF RHAGIUM BIFASCIATUM. (COL. CERAMBYCIDAE). (FR)
J Y Gautier
Soc Entomol France Ann 11(2):457-467 REF
1966 420 P84
Ceramhycidae, Cytology, Gastrointestinal system, Insect histology, Insect morphology, Larvae, Lipids, Polysaccharides, Proteins.
English and french abstract
Abstract

16391-68
GLANDULAR FORMATIONS OF THE DORSAL TEGUMENT OF SAISSETIA OLEAE (HOM. COCCIDAE). (FR)
J Giannotti
Soc Entomol France Ann 3(1):53-65
1967 420 P84
Coccidae, Glands (animals), Insect morphology, Insect physiology, Saissetia oleae.
French and english abstract
Abstract

16392-68
CHANGES IN LIPID CONTENT DURING THE REPRODUCTIVE CYCLE OF LEUCOPHAEA MADERAE AND EFFECTS OF THE JUVENILE HORMONE ON LIPID METABOLISM IN VITRO.
L I Gilbert
Compar Biochem Physiol 21(2):237-257 REF
May 1967 444.8 C73
Culture media, Hormones, Insect genetics, Insect metabolism, Insect morphology, Leucophaea maderae, Lipids, Reproduction.

16393-68
LABORATORY RESEARCH ON ACARAPIS WOODI RENNIE, THE CAUSATIVE AGENT OF ACARINE DISEASE OF THE HONEYBEE. NOTE 5.
G Giordani
J Apicult Res 6(3):147-157
1967 424.8 J82
Acarapis woodi, Acarine disease, Apis mellifera, Experimental insects, Insect diseases, Insect rearing, Larvae, Mites, Parasitic insects.

16394-68
BIOLOGY OF CELTOCEPHALUS SONORUS (HOMOPTERA: CICADELLIDAE).
R D Gustin W N Stoner
Entomol Soc Amer Ann 61(1):77-82 REF
15 Jan 1968 420 EN82
Cicadellidae, Deltocephalus sonorus, Grain, Grasses, Insect biology, Insect physiology, Metamorphosis, Ovulation.

16395-68
A STUDY OF A MELANIC MUTANT OF THE BLOWFLY LUCILIA CUPRINA.
R H Backman M Goldberg
J Insect Physiol 14(6):765-775 REF
Jun 1968 421 J825
Amino acids, Cystine, Insect genetics, Insect mutation, Larvae, Lucilia cuprina, Melanins, Phenolases, Pigments (insect), Pupal cases, Research, Sulphur.

16396-68
A NOTE ON THE INFLUENCE OF A RANGE OF PLANT CHEMICALS ON THE GROWTH AND SURVIVAL OF AEDES AEGYPTI L. LARVAE.
K L S Harley
Can J Zool 45(6,PT.2):1297-1300 REF
Nov 1967 470 C16U
Aedes aegypti, Chemicals, Insect morphology, Insect nutrition, Larvae, Melanoplus bivittatus, Nymphs, Plant composition.
Abstract: Tomatine prolonged pupal period, reduced percentage reaching adult stage; digitonin reduced larval growth, and all larvae failed to pupate; saponin reduced percentage reaching adult stage.

16397-68
MOVEMENTS, HOST-FUNGUS PREFERENCES, AND LONGEVITY OF BOLITOTHERUS CORNUTUS (COLEOPTERA: TENEBRIONIDAE).
H Heatwole A Heatwole
Entomol Soc Amer Ann 61(1):18-23 REF
15 Jan 1968 420 EN82
Bolitotherus cornutus, Fomes applanatus, Fomes fomentarius, Insect behavior, Insect migration, Longevity, Polyporus tsugae, Tenebrionidae, Wood destroying fungi.

16398-68
VITAL DYES AS MARKERS FOR BEHAVIORAL AND POPULATION STUDIES OF THE LARCH SAWFLY, PRISTIPHORA ERICHSONII (HYMENOPTERA: TENTHREDINIDAE).
R J Heron
Can Entomol 100(5):470-475 REF
May 1968 421 C16
Dyes, Insect behavior, Insect dissemination, Insect physiology, Insect populations, Labeling, Larix laricina, Larvae, Pristiphora erichsonii.

16399-68
GROWTH, FEEDING ACTIVITY, AND THE UTILIZATION OF RESERVES IN LARVAE OF LOCUSTA.
L Hill G J Goldsworthy
J Insect Physiol 14(8):1085-1098 REF
Aug 1968 421 JB25
Blood cells, Chemurgy, Cicadidae, Cuticle, Feeding, Glycogen, Insect physiology, Larvae, Lipids, Molting (insects), Trehalose.

16400-68
CONTROLLING INSECT ENEMIES OF THE ALFALFA LEAF-CUTTER BEE, MEGACHILE ROTUNDATA.
G A Hobbs
Can Entomol 100(7):781-784
Jul 1968 421 C16
Alfalfa, Insect pests, Megachile rotundata, Parasitic insects, Sanitation control (insects).
Abstract: This paper is concerned with the control of the species of debris-feeders and parasites imported with the bee or associated with it in southern Alberta.

16401-68
THE INFLUENCE OF NUTRIENT CHEMICALS ON THE FEEDING BEHAVIOR OF THE COLORADO POTATO BEETLE, LEPTINOTARSA DECEMLINEATA (COLEOPTERA: CHRYSOMELIDAE).
T H Hsiao G Fraenkel
Entomol Soc Amer Ann 61(1):44-54 REF
15 Jan 1968 420 EN82
Amino acids, Chemicals, Feeding, Insect behavior, Insect nutrition, Larvae, Leptinotarsa decemlineata, Sterols, Sugars, Vitamins.

16402-68
EFFECT OF INSECTICIDE-FREE REARING ON THE REPRODUCTIVE POTENTIAL OF ORGANOPHOSPHORUS-RESISTANT AFRICAN STRAINS OF AEDES AEGYPTI (L.).
E E Inwang
Can J Zool 46(1):15-19 REF
Jan 1968 470 C16U
Aedes aegypti, Insect rearing, Insecticide resistant insects, Insecticides, Organophosphorus compounds, Reproduction.
Abstract: Molecular basis for reversal of insecticide-resistance postulated. Release inhibitory effects of selection on protein biosynthesis: this results in increased fecundity and thus increased variation in the population. The increase in recombinant types must inevitably increase the number of susceptible genotypes.

16403-68
ECONOMICS OF THE APPLICATION OF MOLLUSCICIDES TO FLOWING WATER.
W R Jobin
World Health Organ Bull 38(2):322-323
1968 449.9 W892B
Biochemistry, Chemicals, Economics, Molluscacides, Mollusks,

Pesticide application, Water.

164D4-68
INDUCTION OF MULTIPOLAR SPINDLES IN THE MEIOSIS OF T8ITICDM AESTIVUM AS EFFECTED BY ACETONE.
A Kabarity
Cytologia 31(4):457-460
Dec 1966 442.8 C99
Acetone, Cells, Chromosomes, Diffusion, Meiosis, Besearch, Triticum aestivum.

16405-68
THE LA8IAL GLAND: A SALT-SECRETING O8GAN OF SATUBNIID MOTHS.
F C Kafatos
J Exp 8iol 48(2):435-453 BEF
Apr 1968 442.8 B77
Antheraea pernyi, Moths, Pupae, Salivary glands (insects), Saturniidae.

16406-68
CHEMICAL COMPOSITION OF THE CELL WALL OF BACILLUS THURINGIENSIS VAB. THURINGIENSIS.
S L Kingan J C Ensign
J 8acteriol 95(2):724-726
Feb 1968 448.3 J82
Amino acids, Bacillus thuringiensis, Biochemistry, Cell wall, Enzymes.

164D7-68
8IOLOGY OF THE CORN EABWORM AND CONTROL WITH INSECTICIDES AND VIRDS IN WASHINGTON.
E C Klostermeyer
J Econ Entomol 61(4):102D-1023
15 Aug 1968 421 J822
8iochemistry, Biological control (insects), Chemical control (insects), Heliothis zea, Insect biology, Insect diseases, Insect traps, Insecticide application, Insecticides, Viruses.
Abstract: Insecticides used were: Furadan (2,3-dihydro-2,-2-dimethyl-7-benzofnranyl methylcarbamate), Gardona (2-chloro-1-(2,4,5-trichlorophenyl) vinyl dimethyl phosphate, and Matacil (4-(dimethyl-amino-m-tolyl methylcarbamate), gave control equivalent to carbaryl.

164D8-68
COMPA8ATIVE STDDY OF POLLEN SODRCES OF HONEY8EES AND 8DMBLE BEES.
W J Knee F E Moeller
J Apicult 8es 6(3):133-138 BEF
1967 424.8 J82
Apis mellifera, Bombus, Insect behavior, Palynology, Pollen.
Abstract: The major sources for honeybees were, in descending order, corn, red clover, sweet clover, white clover and 8rassica; those for bumble bees were red clover and alfalfa.

16409-68
PENETBATION, EXCRETION, AND META8OLISM OF CAR8ARYL IN SDSCEPTIBLE AND RESISTANT GE8MAN COCK8OACHES.
T Ku J L 8ishop
J Econ Entomol 60(5):1328-1332
Oct 1967 421 J822
Blattella germanica, Carbaryl, Insect metabolism, Insect physiology.

16410-68
THE EFFECTS OF CADMIDM COMPOUNDS ON REPRODUCTION AND GBOWTH OF THE STABLE FLY, STOMOXYS CALCITRANS (LINNAEUS).
S E Kunz
Diss Abstr Sect 8 58(12,PT.1):5065B-5D668
Jun 1968 Z5055.U49D53
Cadmium compounds, Insect eggs, Insect physiology, Mortality, Ovaries, Ovulation, Beproduction, Stomoxys calcitrans.

16411-68
THE PERMANENT AND CDMULATIVE EFFECT OF TEPA-INDUCED STEBILITY IN MALE JAPANESE 8EETLES.
T L Ladd
J Econ Entomol 61(4):1058-1D59
15 Aug 1968 421 J822
8iological control (insects), Chemosterilants, Dosage, Drug therapy, Insect control, Insect physiology, Popillia japonica, 8eproduction, Research, Sterilization, Tepa.

16412-68
MASS STERILIZATION OF JAPANESE BEETLES WITH TEPA AND THE DETERMINATION OF 8ESIDDES.
T L Ladd C W Collier E L Plasket
J Econ Entomol 61(4):942-944
15 Aug 1968 421 J822
8iochemistry, Chemical control (insects), Chemosterilants, Dipping, Insect eggs, Insecticide applicaticn, Popillia japonica, Sterilization, Tepa.

16413-68
COMPARATIVE STDDIES OF THE LABELLAR SENSITIVITY OF FEMALE TA8ANIDS (DIPTERA) TO SDCROSE AND SODIUM CHLOBIDE.
S B Lall D M Davies
Entomol Soc Amer Ann 61(1):222-225 BEF
15 Jan 1968 420 EN82
Chemoreceptors, Diptera, Insect physiology, Mouth parts, Sodium chloride, Sucrose, Tabanidae.
Abstract: Labellar contact chemoreceptors had lower acceptance and rejection than tarsal sensilla.

16414-68
THE EFFECT OF HOST PBEGNANCY ON THE REP8ODDCTIVE CAPABILITY OF THE TSETSE FLY, GLOSSINA MORSITANS, IN CAPTIVITY.
P A Langley
J Insect Physiol 14(1):121-133 BEF
Jan 1968 421 J825
Glossina morsitans, Guinea pigs, Insect rearing, Larvae, Proteins, Beproduction.

16415-68
COMPABATIVE MORPHOLOGY OF THE GENITAL AREA OF TRIPLOID INTE8SEXES OF DROSOPHILA MELANOGASTER. (FR)
G Lauge
Soc Entomol France Ann 4(2):481-499 BEF
1968 420 F84
Drosophila melanogaster, Drosophilidae, Gynandromorphism, Insect anatomy, Insect morphology, Intersexuality, Reproductive organs.
French and english abstract
Abstract

16416-68
DOSAGE COMPENSATION AS A DEVELOPMENTAL PHENOMENON IN DROSOPHILA.
G L Lee
Genet Res 11(1):115-118 REF
Feb 1968 443.8 G283
Dosage, Drosophilidae, Insect genetics, Insect morphology, Insect physiology.

16417-68
INSECTICIDAL 2-HALO- AND 2,4-DIHALOALKYLPHENYL CA88AMATE COMPOSITIONS AND METHOD FOR CONT8OLLING INSECTS. PATENT 3,402,245.
A J Lemin
Us Patent Office Offic Gaz 854(3):78D
17 Sep 1968 156.65 OF2
Carbamates, Chemical control (insects), Insecticides, Methodology, Patents.

16418-68
THE BIOLOGY OF CAMPOPLEX BAYWARDI (HYMENOPTERA: ICHNEUMONIDAE), A PRIMABY PABASITE OF THE POTATO TUBERWORM.
J K L Leong E B Oatman
Entomol Soc Amer Ann 61(1):26-36
15 Jan 1968 42D EN82
Campoplex haywardi, Ichneumonidae, Insect biology, Insect eggs, Insect rearing, Insectaries, Larvae, Metamorphosis, Ovulation, Parasitic insects, Phthorimaea operculella, Potatoes, Pupae,

16419-68
EVIDENCE OF WINGED INSECT SEXDAL DIMORPHISM IN PHILOPHYLLA HERACLEI (DIPT. T8YPETIDAE) THRODGH DSE OF A "PHOTOPTE8OMET8E". (FR)
8 Leroi C Pasquier
Soc Entomol France Ann 4(2):477-48D
1968 420 F84
Diptera, Insect morphology, Insect physiology, Melanins, Photometry, Pigments, Wings (insects).
Abstract

1642D-68
IMMDNOLOGICAL 8ELATIONSHIPS BETWEEN THE PARASITE CABDIOCHILES NIGRICEPS VIERICK AND CE8TAIN HELIOTHIS SPECIES.
W J Lewis S B Vinson
J Insect Physiol 14(5):613-626 BEF
May 1968 421 J825
Antigens, Cardiochiles nigriceps, Heliothis, Immunology, Insect physiology, Parasitism.

16421-68
PRELIMINARY REPORT ON THE INTRODUCTION OF PHYTOSEIULUS PERSIMILIS TO POLAND. (POL)
J J Lipa S Pruszynski W Wegorek
Poznan Inst Ochrony Roslin Biul 36:87-92
1967 464.9 P87
Biological control (insects), Insect biology, Mites, Phytoseiidae, Phytoseiulus persimilis, Predaceous insects, Tetranychus.
English and russian abstract
Abstract

16422-68
EFFECTS OF IONIZING RADIATION ON THE EUROPEAN CHAFER, THE PLUM CURCULIO, AND THE LARGE MILKWEED BUG.
P C Lippold F L Gambrell L M Massey
Entomol Soc Amer Ann 61(1):151-158 REF
15 Jan 1968 420 ENB2
Amphimallon majalis, Cobalt isotopes, Conotrachelus nenuphar, Gamma rays, Insect control, Insect eggs, Mortality, Oncopeltus fasciatus, Radiobiology.

16423-68
EVIDENCE FOR THE DDT-INDUCED SYNTHESIS OF MESSENGER RIBONUCLEIC ACID IN TRIATOMA INFESTANS.
S Litvak L Tarrago-Litvak P Poblete M Agosin
Compar Biochem Physiol 26(1):45-56 REF
Jul 1968 444.8 C73
Biochemistry, Ddt, Insect metabolism, Insect physiology, Insecticide resistant insects, Ribonucleic acid, Triatoma infestans.
Abstract

16424-68
A STUDY OF HAEMOLYMPH PROTEINS IN LEPIDOPTERA. FILM 695.
B G Loughton
1966
Blood, Lepidoptera, Proteins.
Canada Public Archives, Central Microfilm Unit, thesis 451.

16425-68
SUPERCOOLING OF THE SAGUARO SPECIES DROSOPHILA NIGROSPIRACULA IN THE SONORAN DESERT.
C H Lowe W B Heed E A Halpern
Ecology 48(6):984-985,AUTUMN REF
1967 410 EC7
Cereus giganteus, Drosophila nigrospiracula, Drosophilidae, Insect ecology, Insect temperature.
Abstract

16426-68
REARING OF THE HOG LOUSE HAEMATOPINUS SDIS ON MICE. (GE)
H W Ludwig M Thiemes
Z Parasitenk 30(2):176-178 REF
1968 442.B Z33F
Anoplura, Haematopinus suis, Insect rearing, Mice.
English and german abstract
Abstract

16427-68
THE AQUATIC ACARINA OF SWEDEN. III. (ge)
O von Lundblad
Arkiv Zool 21(1-6):1-633 MAPS, REF
20 Mar 1968 410.9 SV22
Ecology, Hydrachnellae, Zoogeography.

16428-68
EFFECTS OF ECDYSONE ON EPIDERMAL CELLS IN WHICH DNA SYNTHESIS HAS BEEN BLOCKED.
K Madhaven H A Schneiderman
J Insect Physiol 14(6):777-781
Jun 1968 421 J825
Abdomen, Antheraea polyphemus, Cells, Deoxyribonucleic acid, Ecdysone, Hormones, Hyalophora cecropia, Injections, Samia cynthia ricini.

16429-68
TWO EFFECTS OF PHOTOPERIOD ON WING DEVELOPMENT IN GRYLLODES SIGILLATDS (WALK).
S B Mathad J E McFarlane
Can J Zool 46(1):57-60
Jan 1968 47D C16D
Gryllodes sigillatus, Insect morphology, Larvae, Photoperiodism, Wings (insects).
Abstract: Photoperiod produces an effect on wing development both directly on the larvae and indirectly through their parents.

16430-68
BIONOMICS, SEXUAL BEHAVIOR, AND ADULT ANATOMY OF THE ALBIDA GROUP OF THE GENUS EPICAUTA (COLEOPTERA: MELOIDAE).
J M Mathieu
Diss Abstr Sect B 58(12,PT.1):5D66B
Jun 1968 Z5055.U49D53
Epicauta, Insect anatomy, Insect behavior, Insect ecology, Insect taxonomy, Meloidae, Sex behavior.

16431-68
THE EFFECT OF TEMPERATURE UPON THE DEVELOPMENT OF THE HEART-AND-DART MOTH (AGROTIS EXCLAMATIONIS L.). (RU)
O I Merzheevskaya
Zool Zhur 47(2):254-260 REF
Feb 1968 410 R92
Agrotis exclamationis, Caterpillars, Insect eggs, Insect physiology, Metamorphosis, Mortality, Noctuidae, Temperature.
English and russian abstracts.

16432-68
BIOCLIMATIC STUDIES OF THE APHID PARASITE PRAON EXSOLETUM. 1. EFFECTS OF TEMPERATURE ON THE FUNCTIONAL RESPONSE OF FEMALES TO VARYING HOST DENSITIES.
P S Messenger
Can Entomol 100(7):728-741 REF
Jul 1968 421 C16
Humidity, Microclimate, Ovulation, Parasitic insects, Praon exsoletum palitans, Temperature.
Abstract: Using bioclimatic chambers to provide diurnally fluctuating temperature and humidity conditions, the relationship between fecundidity of females of the aphid parasite, Praon exsoletum, and different host densities, was examined over a wide range of temperatures.

16433-68
STUDIES ON THE SALIVARY PHYSIOLOGY OF PLANT-BUGS: EXPERIMENTAL INDUCTION OF GALLS.
P W Miles
J Insect Physiol 14(1):97-106 REF
Jan 1968 421 J825
Gall-making insects, Indoleacetic acid, Injections, Insect physiology, Miridae, Plant diseases, Plant galls, Salivary glands (insects).

16434-68
INSECTICIDES FOR CONTROL OF THE LONE STAR TICK TESTED IN THE LABORATORY AND AS HIGH-AND ULTRA-LOW-VOLUME SPRAYS IN WOODED AREAS.
G A Mount J M Hirst J G McWilliams C S Lofgren S A White
J Econ Entomol 61(4):1005-1007
15 Aug 1968 421 J822
Aerial spraying, Amblyomma americanum, Biochemistry, Chemical control (insects), Experimental insects, Forests, Insecticide application, Insecticides.
Abstract: The most effective insecticides were: Bay 39007 (o-isopropoxyphenyl methylcarbamate), Banol (6-chloro-3,4 xylyl methylcarbamate, Shell SD-8530 (3,4,5-trimethyl phenyl methylcarbamate), Schering 34615 (m-cym-5-yl methylcarbamate), Dursban (O,O-diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate), naled, and dichlorvos.

16435-68
PROTECTING HONEYBEES FROM CHEMICAL POISONS. SF538 .N3. (RUS)
S S Nazarov
243 P. MOSCOW, ROSSEL'KHOZIZDAT
1967
Apis mellifera, Pesticides, Poisoning.

16436-68
FLIGHT ACTIVITY OF HONEYBEES IN A FLIGHT AND REARING ROOM. I. THE INFLUENCE OF LIGHT INTENSITY.
E V Nelson S C Jay
J Apicult Res 6(3):179-183 REF
1967 424.8 J82
Apis mellifera, Experimental insects, Insect dissemination, Insect physiology, Light, Temperature, Time, Weather.

16437-68
SHORT-TERM EFFECTS OF CRUSTECDYSONE (20-HYDROXYECDYSONE) ON PROTEIN AND RNA SYNTHESIS IN THIRD INSTAR LARVAE OF CALLIPHORA.
G J Neufeld J A Thomson D S H Horn
J Insect Physiol 14(6):789-804 REF
Jun 1968 421 JB25
Calliphora stygia, Dosage, Ecdysone, Fat body, Hormones, Hydroxyecdysone, 20-, Injections, Injuries, Larvae, Proteins, Ribonucleic acid, Steroids.

16438-68
OBSERVATIONS OF THE SPREAD OF MYCOSIS IN MOSQUITOES. (GE)
D Novak
Z Tropenmed Parasitol 18(4):488-491
Dec 1967 448.B Z37
Culicidae, Fungi, Insect diseases, Mycosis.

16439-68
STRUCTURE AND FORMATION OF COAPTATIONS OF THE MAXILLARY STYLETS OF RHODNIUS PROLIXUS. (HETER. REDUVIIDAE). (FR)
J M Pinet
Soc Entomol France Ann 4(2):455-475 REF
1968 420 F84
Insect morphology, Insect physiology, Mouth parts, Reduviidae, Rhodnius prolixus, Stylets.
Abstract

16440-68
THE METABOLISM OF CARBARYL (1-NAPHTHYL-N-METHYLCARBAMATE) BY THE FAT BODY OF THE BLOWFLY LARVA CALLIPHORA ERYTHROCEPHALA.
G M Price R J Kuhr
Biochem J 108(3):20P
Jul 1968 382 B52
Calliphora vicina, Carbaryl, Culture media, Fat body, Hydrogen-ion concentration, Insect metabolism, Insect physiology, Insecticides, Larvae, Metabolites, Temperature.

16441-68
FACTORS AFFECTING PROTEIN SYNTHESIS BY THE FAT BODY OF THE LARVA OF THE BLOWFLY CALLIPHORA ERYTHROCEPHALA.
G M Price
Biochem J 108(3):19P
Jul 1968 382 B52
Biochemistry, Calliphora vicina, Culture media, Fat body, Insect physiology, Ions, Larvae, Proteins, Temperature, Time.

16442-68
OXYGEN CONSUMPTION BY SOIL LARVAE OF INSECTS IN DEPENDENCE ON ITS TENSION. (RU)
M G Prokopyeva
Zool Zhur 47(2):301-303
Feb 1968 410 B92
Carabidae, Cetonia aurata, Harpalus latus, Insect respiration, Larvae, Oxygen, Scarabaeidae, Soil insects, Tipula scripta, Tipulidae.
English and russian abstracts.

16443-68
ASPECTS CONCERNING THE MODE OF ACTION OF INSECTICIDE. (SP)
J M Rey
Spain Inst Biol Apl Publ 41:5-40 REF
Dec 1966 442.9 SP13
Insect anatomy, Insect physiology, Insecticides.

16444-68
OOTHECAE OF THE BLATTARIA.
L M Roth
Entomol Soc Amer Ann 61(1):83-111 REF
15 Jan 1968 420 EN82
Blattidae, Insect eggs, Insect evolution, Insect physiology.

16445-68
OVARIOLES OF THE BLATTARIA.
L M Roth
Entomol Soc Amer Ann 61(1):132-140 REF
15 Jan 1968 420 EN82
Blattidae, Insect eggs, Insect evolution, Insect physiology, Ovulation.
Abstract: In the ovoviviparous and viviparous Blaberidae there is a marked reduction in the total number of oocytes, and only 1 oocyte develops yolk at ovulation.

16446-68
THE EFFECT OF AGE ON THE FLIGHT PERFORMANCE OF FEMALE AEDES AEGYPTI MOSQUITOES.
W A Bowley C L Graham
J Insect Physiol 14(5):719-728 REF
May 1968 421 J825
Aedes aegypti, Aging, Glycogen, Insect dissemination, Insect physiology.

16447-68
METABOLIC THERMAL ADAPTATIONS IN THE MOSQUITO CULEX PIPIENS PIPIENS (DIPTERA: CULICIDAE).
J D Ruffington
Diss Abstr Sect B 58(12,PT.1):5D61B-5D62B
Jun 1968 Z5055.U49D53
Culex pipiens pipiens, Insect adaptation, Insect metabolism, Insect respiration, Larvae, Lipids, Proteins, Temperature.

16448-68
THE ULTRASTRUCTURE OF INSECT SURFACES BY SCANNING ELECTRON MICROSCOPY.
E H Salkeld A Wilkes
Can Entomol 100(1):1-4
Jan 1968 421 C16
Cuticle, Electron microscopes, Equipment, Insects, Oncopeltus fasciatus, Photography.

16449-68
THE STUDY OF FERTILITY OF THE RAT FLEAS (XENOPSYLLA CHEOPIS ROTHSCH. AND CERATOPHYLLUS FASCIATUS ROSC.) UNDER THEIR FEEDING ON DIFFERENT ANIMALS. (RU)
G P Samarina A N Alexeyev P I Shiranovich
Zool Zhur 47(2):261-268 REF
Feb 1968 410 B92
Ceratophyllus fasciatus, Fertility, Hamsters, Mice, Rats, Siphonaptera, Xenopsylla cheopis.
English and russian abstracts.

16450-68
INHIBITION BY ACETYLCHOLINE OF MALPIGHIAN TUBULE MUSCLE OF THE COCKROACH PERIPLANETA AMERICANA.
C W Schaefer
Entomol Soc Amer Ann 61(1):226-227 REF
15 Jan 1968 420 EN82
Acetylcholine, Blattidae, Insect physiology, Malpighian tubes, Muscles, Periplaneta americana.

16451-68
THE INNERVATION OF THE TERMINAL ABDOMINAL SEGMENTS (VII- XI) OF THE DESERT LOCUST, SCHISTOCERA GREGARIA.
W D Seabrook
Can Entomol 100(7):693-715 REF
Jul 1968 421 C16
Insect biology, Insect morphology, Nerves, Reproductive organs, Schistocerca gregaria.

16452-68
POPULATION INTER-RELATIONSHIPS. I. EVOLUTION IN MIXTURES OF DROSOPHILA MUTANTS.
A P C Seaton J Antonovics
Heredity 22(1):19-33 REF
Feb 1967 443.B H42
Culture media, Drosophila melanogaster, Drosophila simulans, Drosophilidae, Insect evolution, Insect mutation, Population statistics.

16453-68
PROTEIN SYNTHESIS IN SUBCELLULAR FRACTIONS OF THE BLOWFLY DURING DIFFERENT DEVELOPMENTAL STAGES.
K E Sekeri C E Sekeris P Karlson
J Insect Physiol 14(3):425-431 REF
Mar 1968 421 J825
Biochemistry, Calliphora vicina, Insect physiology, Proteins, Ribonucleic acid, Ribosomes.

16454-68
NUMBER OF INSTARS OF THE LARVA OF HERSE CONVOLVULI L.
D G Sevastopulo
Entomol Rec J Variation 80(5):147-148
May 1968 421 EN89
Amphipyra herbera, Amphipyra pyramidea, Breeding, Herse convolvuli, Larvae, Metamorphosis.

16455-68
FLIGHT HEIGHT, DROPLET SIZE, AND MOISTURE INFLUENCE ON GRASSHOPPER CONTROL ACHIEVED WITH MALATHION APPLIED AERIALLY AT ULV.
F E Skoog F T Cowan
J Econ Entomol 61(4):1000-1003
15 Aug 1968 421 JB22
Aerial spraying, Biochemistry, Chemical control (insects), Grasshoppers, Humidity, Insect dissemination, Insect flight, Insecticide application, Insecticides, Malathion.

16456-68
PHOTOTACTIC RESPONSE OF ADULTS OF CONFUSED FLOUR BEETLE AND RED FLOUR BEETLE AND LARVAE OF BLACK CARPET BEETLE TO FLASHES OF BLUE-WHITE LIGHT.
E L Soderstom
J Econ Entomol 61(4):973-975
15 Aug 1968 421 J822
Attagenus megatoma, Insect physiology, Larvae, Light, Photochemistry, Photosensitization, Tribolium castaneum, Tribolium confusum.

16457-68
IN VITRO CULTIVATION OF CHORISTONEURA FUMIFERANA (CLEMENS) (LEPIDOPTERA:TORTRICIDAE) TISSUES.
S S Sohi
Can J Zool 46(1):11-13 REF
Jan 1968 470 C16D
Choristoneura fumiferana, Insect cultures, Insect rearing, Tissues, Tortricidae.

16458-68
BIOLOGICAL NOTES ON, AND ERADICATION OF TRICHOGRAMMA SEMIFUMATUM FROM LABORATORY CULTURES OF EIGHT SPECIES OF NOCTUIDAE.
V M Stern H H Shorey
J Econ Entomol 61(4):899-901
15 Aug 1968 421 J822
Culture media, Experimental insects, Insect biology, Insect eggs, Insect physiology, Larvae, Noctuidae, Ovulation, Parasitism, Trichogramma semifumatum.
Abstract: Species were: Heliothis zea, H. virescens, Trichoplusia,Autographa californica, Rachiplusia, Pseudoplusia includens, Prodenia ornithogalli, Spodoptera exigua.

16459-68
DEFENSE REACTIONS OF DROSOPHILA SPECIES (DIPTERA: DROSOPHILIDAE) TO THE PARASITE PSEUDEUCOILA BOCHEI(HYMENOPTERA: CYNIPIDAE).
F A Streams
Entomol Soc Amer Ann 61(1):158-164 REF
15 Jan 1968 420 EN82
Cynipidae, Drosophila, Insect eggs, Insect physiology, Larvae, Parasitic insects, Pseudeucoila bochei.

16460-68
SEGMENTATION AND ORGANOGENESIS IN LIMNORIA LIGNORUM (RATHKE) (ISOPODA).
J-o Stromberg
Arkiv Zool 20(2):91-139 REF
1968 410.9 SV22
Embryology, Gastrointestinal system, Insect morphology, Isopoda, Nervous system.

16461-68
METHODS OF KILLING PESTS SELECTED FROM THE GROUP CONSISTING OF MITES AND INSECTS WITH PHOSPHONOTHIOATES. PATENT 3,401,220.
K Szabo D J Broadbent
Us Patent Office Offic Gaz 854(2):502-503
10 Sep 1968 156.65 OF2
Chemical control (insects), Insect behavior, Methodology, Mites, Patents, Pesticides, Phosphonothioic acid compounds.

16462-68
SOME PHYSIOLOGICAL EFFECTS OF SUBLETHAL DOSES OF DDT ON FLOUR BEETLES.
M Taher
Diss Abstr Sect B 58(12,PT.1):5067B
Jun 1968 Z5055.U49D53
Chlorinated hydrocarbons, Ddt, Dosage, Excreta, Fertility, Insect physiology, Insecticides, Lindane, Malathion, Mortality, Ovulation, Quinones, Reproduction, Sodium fluoride, Sterility, Tribolium confusum.

16463-68
ECOLOGY AND BEHAVIOR OF THE MIGRATORY LOCUST IN SOUTHWEST MADAGASCAR. (FR)
J-p Tetefort D Wintrebert
Soc Entomol France Ann 3(1):3-30 MAP REF
1967 420 F84
Acrididae, Insect behavior, Insect ecology, Insect outbreaks, Insect pests.
French and english abstract
Abstract

16464-68
PHOSPHOLIPID SYNTHESIS DURING FLIGHT MUSCLE DEVELOPMENT IN THE AMERICAN SILKMOTH, HYALOPHORA CECROPIA.
K K Thomas L I Gilbert
Compar Biochem Physiol 21(2):279-290 REF
May 1967 444.8 C73
Hyalophora cecropia, Insect flight, Insect metabolism, Insect morphology, Lipids, Muscles.

16465-68
SURVIVAL AND DEVELOPMENT OF SEVERAL GRASSHOPPER SPECIES ON EXTRACTS OF SELECTED PLANT SPECIES.
D R Toczek
Diss Abstr Sect B 58(12,PT.1):5255B-5256B
Jun 1968 Z5055.U49D53
Grasshoppers, Insect physiology, Insect rearing, Mortality, Plant extracts.

16466-68
SURVIVAL OF OVERWINTING ALFALFA WEEVIL EGGS IN PENNSYLVANIA.
H G Townsend W G Yendol
J Econ Entomol 61(4):916-918
15 Aug 1968 421 J822
Alfalfa, Hibernation, Hypera postica, Insect eggs, Insect physiology, Population, Research, Temperature, Weather.

16467-68
SEX ATTRACTION IN THE MEDITERRANEAN FLOUR MOTH, ANAGASTA KUHNIELLA: LOCATION OF THE FEMALE BY THE MALE.
E M M Traynier
Can Entomol 100(1):5-10 REF
Jan 1968 421 C16
Anagasta kuehniella, Insect behavior, Photography, Sex attractants, Sex behavior.

16468-68
BEHAVIOUR GENETICS OF NEST CLEANING IN HONEYBEES. V. EFFECT OF PREVIOUS EXPERIENCE AND COMPOSITION OF MIXED COLONIES ON RESPONSE TO DISEASE-KILLED BROOD.
R F Tromp V C Thompson W C Rothenbuhler
J Apicult Res 6(3):127-131 REF
1967 424.8 J82
American foulbrood, Apis mellifera, Bacillus larvae, Hygiene, Insect behavior, Insect genetics, Social insects.

16469-68
STRUCTURE AND PHYSIOLOGY OF A CHORDOTONAL ORGAN IN THE LOCUST LEG.
P N R Usherwood H I Runion J I Campbell
J Exp Biol 48(2):305-323 REF
Apr 1968 442.8 B77
Insect anatomy, Insect behavior, Insect physiology, Locusta migratoria, Mechanoreceptors, Romalea microptera, Schistocerca gregaria.

16470-68
DIETARY REQUIREMENTS OF THE BOLLWORM, HELIOTHIS ZEA (LEPIDOPTERA: NOCTUIDAE), FOR LIPIDS, CHOLINE, AND INOSITOL AND THE EFFECT OF FATS AND FATTY ACIDS ON THE COMPOSITION OF THE BODY FAT.
E S Vanderzant
Entomol Soc Amer Ann 61(1):120-125 REF
15 Jan 1968 42D EN82
Choline, Fats, Fatty acids, Heliothis zea, Inositol, Insect nutrition, Insect physiology, Linoleic acid, Linolenic acid, Lipids, Noctuidae.

16471-68
SOURCE OF A SUBSTANCE IN HELIOTHIS VIRESCENS (LEPIDOPTERA: NOCTUIDAE) THAT ELICITS A SEARCHING RESPONSE IN ITS HABITUAL PARASITE CARDIOCHILES NIGRICEPS. (HYMENOPTERA: BRACONIDAE.
S B Vinson
Entomol Soc Amer Ann 61(1):8-10
15 Jan 1968 420 EN82
Braconidae, Cardiochiles nigriceps, Heliothis virescens, Insect behavior, Insect physiology, Mandibular glands, Parasitic insects.

16472-68
EVALUATION OF INSECTICIDES FOR CONTROL OF PICKLEWORM ON SUMMER SQUASH.
R E Waites D H Habeck
J Econ Entomol 61(4):1097-1099
15 Aug 1968 421 J822
Biochemistry, Carbaryl, Chemical control (insects), Diaphania nitidalis, Entomology, Insecticides, Research, Squash.
Abstract: Chemicals used were: lindane, endosulfan, and trichlorofon, monsanto CP-47114, furadan, ortho.

16473-68
THE SEPARATION AND CHARACTERIZATION OF THE HAEMOLYMPH PROTEINS OF SEVERAL INSECTS.
C M Wang R L Patton
J Insect Physiol 14(8):1069-1075 REF
Aug 1968 421 JR25
Acrylamide, Blood cells, Electrophoresis, Gels, Histochemistry, Insects, Proteins.

16474-68
FIELD TRIALS TO CONTROL COLORADO BEETLE, LEPTINOTARSA DECEMLINEATA, WITH PERILLUS BIOCULATUS. (POL)
W Wegorek A Szmidt

Poznan Inst Ochrony Roslin Biul 36:47-54
1967 464.9 P87
Biological control (insects), Coleoptera, Hemiptera, Insect ecology, Leptinotarsa decemlineata, Perillus bioculatus, Predaceous insects.
English and russian abstract
Abstract

16475-68
PLISTOPHORA SCOLYTI SP. N. (PROTOZOA, MICROSPORIDIA), A NEW PARASITE OF SCOLYTUS SCOLYTUS F. (COL., SCOLYTIDAE).
J Weiser
Folia Parasitol 15:11-14 REF
1968 436.8 C33
Insect diseases, Nosema, Plistophora, Protozoa, Scolytus scolytus.
Abstract: Last larvae and adults of Scolytus scolytus F. are infected with Plistophora scolyti sp. nov. and Nosema curvidentis Weiser. Both Microsporidia attack the gut wall and oenocytes on its surface. A double infection is present in most cases. Host mortality is low and only colonies in old trunks, where crossings of old and new galleries are common, are infected.

16476-68
TRIPLOSPORIUM TETRANYCHI SP. N. (PHYCOMYCETES, ENTOMOPHTHORACEAE), A FUNGUS INFECTING THE RED MITE TETRANYCHUS ALTHAEAE HANST.
J Weiser
Folia Parasitol 15(DD):115-122
1968 436.8 C33
Entomophthoraceae, Insect diseases, Mites, Plant taxonomy, Tetranychus althaeae, Triplosporium tetranychi.
Abstract

16477-68
EMBRYOLOGY OF THE HOUSE FLY, MUSCA DOMESTICA (DIPTERA: MUSCIDAE), TO THE BLASTODERM STAGE.
J A West G E Cantwell T J Shortino
Entomol Soc Amer Ann 61(1):13-17
15 Jan 1968 42D EN82
Embryology, Insect eggs, Musca domestica.

16478-68
THE ANT LARVAE OF THE SUBFAMILY FORMICINAE (HYMENOPTERA: FORMICIDAE): SUPPLEMENT.
G C Wheeler J Wheeler
Entomol Soc Amer Ann 61(1):2D5-222 REF
15 Jan 1968 42D EN82
Formicidae, Insect taxonomy, Larvae.

16479-68
VIABILITY, DEVELOPMENT, AND RATE OF PASSAGE OF THE PATHOGENIC BACTERIUM, BACILLUS LARVAE WHITE, IN THE HEMOLYMPH AND ALIMENTARY CANAL OF THE ADULT HONEY BEE, APIS MELLIFERA L.
W T Wilson
Diss Abstr Sect B 58(12,PT.1):5D67B-5D68B
Jun 1968 Z5055.U49D53
American foulbrood, Apis mellifera, Bacillus larvae, Bee diseases, Blood, Intestines.

1648D-68
INVESTIGATIONS OF NEW INSECTICIDES. (POL)
W Witkowski
Poznan Inst Ochrony Roslin Binl 36:125-126
1967 464.9 P87
Chemical control (insects), Insect control, Mites, Pesticides, Toxicology.
English and russian abstract

16481-68
SOME RESPONSES OF FLYING AEDES AEGYPTI TO VISUAL STIMULI.
P W Wood R H Wright
Can Entomol 1D(5):5D4-513
May 1968 421 C16
Aedes aegypti, Air flow, Color, Equipment, Humidity, Insect behavior, Insect rearing, Kinetics, Light, Temperature, Vision.

16482-68
RESPONSE AND RECOVERY ON X-IRRADIATED TRIBOLIUM CONFUSUM LARVAE.
C Yang
Diss Abstr Sect B 58(12,PT.1):48868
Jun 1968 Z5055.U49D53
Cycloheximide, Dosage, Insect metabolism, Larvae, Mortality, Proteins, Temperature, Tribolium confusum, X-rays.

16483-68
EFFECT OF IRRIGATION AND SUBMERSION IN WATER ON PUPAL SURVIVAL OF THE BOLLWORM.
J H Young R G Price
J Econ Entomol 61(4):959-961 REF
15 Aug 1968 421 J822
Cotton, Field crops, Heliothis zea, Immunity, Insect physiology, Irrigation, Pupae, Research, Time, Water.

16484-68
ELECTRON MICROSCOPICAL STUDIES ON DITYLENCHUS DIPSACI (KUHN). STOMATAL REGION.
P Yuen
Can J Zool 45(6,PT.1):1D19-1033 REF
Nov 1967 47D C16D
Ditylenchus dipsaci, Electron microscopes, Helminthiasis, Morphology, Plant nematodes, Stomach.

16485-68
EFFECTS OF SOME PHYSICAL AND BIOLOGICAL FACTORS ON THE REPRODUCTION, DEVELOPMENT, SURVIVAL, AND BEHAVIOR OF THE CEREAL LEAF BEETLE, OULEMA MELANOPUS (LINNAEUS), UNDER LABORATORY CONDITIONS.
Y M Yun
Diss Abstr Sect B 58(12,PT.1):5D68B
Jun 1968 Z5055.U49D53
Humidity, Insect behavior, Insect ecology, Insect flight, Insect physiology, Light, Metamorphosis, Mortality, Oulema melanopus, Ovulation, Reproduction, Temperature.

16486-68
EFFECT OF CORPORA ALLATA ON PROTEIN AND RNA SYNTHESIS IN COLLETERIAL GLANDS OF BLATTELLA GERMANICA.
M Zalokar
J Insect Physiol 14(8):1177-1184
Aug 1968 421 J825
Blattella germanica, Colleterial glands, Corpora allata, Gonadotropins, Nucleosides, Phosphorylation, Proteins, Radioactivity, Research, Ribonucleic acid, Uridine.

16487-68
TEMPERATURE COMPENSATION OF THE CIRCADIAN OSCILLATION IN DROSOPHILA PSEUDOOBSCURA AND ITS ENTRAINMENT BY TEMPERATURE CYCLES.
W F Zimmerman C S Pittendrigh T Pavlidis
J Insect Physiol 14(5):669-684 REF
May 1968 421 J825
Diurnal rhythm, Drosophila pseudoobscura, Insect behavior, Insect temperature, Stridulation.

16488-68
OILS FOR SUMMER CONTROL OF PEAR PSYLLA AND THEIR EFFECTS ON PEAR TREES.
R W Zwick F W Peifer
J Econ Entomol 61(4):1075-1D79 REF
15 Aug 1968 421 J822
Biochemistry, Chemical control (insects), Foliar application, Oils, Pears, Psylla pyricola, Spraying, Trees.
Abstract: Oil were combined with azinphosmethyl, ethion, and perthane (1,1-dichloro-2,2 bis(p-ethylphenyl) ethane.

Genetics

16489-68
THE REPRODUCTIVE BIOLOGY OF HIPPELATES COLLUSOR (DIPTERA: CHLOROPIDAE). II. GAMETOGENESIS.
T S Adams M S Mulla
Entomol Soc Amer Ann 6D(6):1177-1182
Nov 1967 420 EN82
Chloropidae, Gametogenesis, Hippelates, Insect biology.

16490-68
SPERMATOZOAN NUCLEUS LENGTH IN THREE STRAINS OF DROSOPHILA MELANOGASTER.
R A Beatty N S Sidhu
Heredity 22(1):65-82 REF
Feb 1967 443.8 B42
Cell nucleus, Culture media, Drosophila melanogaster, Environment, Genetics, Nomogenesis, Sampling (statistics), Spermatozoa, Variance analysis.

10 16491-68

16491-68
CYTOGENETIC OBSERVATIONS ON SPECIES A AND B OF THE ANOPHELES GAMBIAE COMPLEX.
M Coluzzi A Sabatini
Parassitologia 9(2):73-88 REF
Oct 1967 436.8 P212
Anopheles gambiae, Breeding, Chromosomes, Cytogenetics, Insect genetics, Polymorphism, Salivary glands (insects).
English and italian abstract
Abstract

16492-68
INFLUENCE OF REPELLENCY ON THE EFFICACY OF BLATTICIDES. II. LABORATORY EXPERIMENTS WITH GERMAN COCKROACHES.
W Ebeling D A Reierson R E Wagner
J Econ Entomol 60(5):1375-1390
Oct 1967 421 J822
Blattella germanica, Insect repellents, Insecticides.

16493-68
RESISTANCE LEVELS IN DIAZINON-PRESSURED AND NONPRESSURED POLYRESISTANT HOUSE FLIES.
A J Forgash E J Hansens
J Econ Entomol 60(5):1241-1247
Oct 1967 421 J822
Diazinon, Insecticide resistant insects, Musca domestica.

16494-68
TEMPERATURE EFFECT ON REPRODUCTION AND LONGEVITY OF LABORATORY-REARED ADULT PINK BOLLWORM (LEPIDOPTERA: GELECHIIDAE).
H M Graham P A Glick M T Ouye
Entomol Soc Amer Ann 60(6):1211-1213
Nov 1967 42D EN82
Insect rearing, Pectinophora, Reproduction.

16495-68
PARATHION RESISTANCE IN HOUSE FLY POPULATIONS IN THE SAVANNAH, GEORGIA, AREA.
W Mathis A D Flynn H F Schoof
J Econ Entomol 60(5):14D7-14D9
Oct 1967 421 J822
Diazinon, Georgia, Insecticide resistant insects, Musca domestica, Parathion.

16496-68
INHERITED STERILITY IN PROGENY OF IRRADIATED MALE CABBAGE LOOPERS.
D T North G Holt
J Econ Entomol 61(4):928-931 REF
15 Aug 1968 421 J822
Breeding, Chromosomes, Gamma rays, Heredity, Insect control, Insect eggs, Insect genetics, Insect physiology, Lepidoptera, Sex, Sterility, Trichoplusia ni.

16497-68
MUTATION AND CHROMOSOMAL PUFFING IN THE VICINITY OF THE WHITE LOCUS OF DROSOPHILA MELANOGASTER.
R E Rayle
Diss Abstr Sect B 28(12,PT.1):4880B
Jun 1968 Z5055.U49D53
Chromosomes, Drosophila melanogaster, Insect genetics, Insect mutation.

16498-68
PHYSIOLOGICAL GENETICS OF MELANOTIC TUMORS IN DROSOPHILA MELANOGASTER. IV. GENE-ENVIRONMENT INTERACTIONS OF TU-BW WITH DIFFERENT THIRD CHROMOSOME BACKGROUNDS.
J H Sang B Burnet
Genetics 56(4):743-754
Aug 1967 442.8 G28
Breeding, Chromosomes, Deoxyribonucleic acid, Drosophila melanogaster, Insect genetics, Insect physiology, Neoplasms, Population, Temperature.

16499-68
A FORMULA FOR DETERMINING DEGREE OF DOMINANCE IN CASES OF MONOFACTORIAL INHERITANCE OF RESISTANCE TO CHEMICALS.
B F Stone
World Health Organ Bull 38(2):325-326
1968 449.9 W892B
Arthropoda, Chemicals, Dominance, Genes, Inheritance, Insect genetics, Insecticide resistant insects.

Medical Entomology

165DD-68
TIME OF ARRIVAL OF GRAVID CULEX PIPIENS FATIGANS AT AN OVIPOSITION SITE, THE OVIPOSITION CYCLE AND THE RELATIONSHIP BETWEEN TIME OF FEEDING AND TIME OF OVIPOSITION.
B De Meillon A Sebastian Z H Khan
World Health Organ Bull 36(1):39-46
1967 449.9 W892B
Culex pipiens quinquefasciatus, Feeding, Insect behavior, Insect control, Insect traps, Light, Ovulation, Pregnancy, Reproduction, Time.
French summary

16501-68
CANE-SUGAR FEEDING IN CULEX PIPIENS FATIGANS.
B De Meillon A Sebastian Z H Khan
World Health Organ Bull 36(1):53-65
1967 449.9 W892B
Attractants, Culex pipiens quinquefasciatus, Feeding, Insect behavior, Insect biology, Insect control, Insect dissemination, Insect traps, Insect vectors, Ovulation, Sugarcane.
French summary

16502-68
THE SEROLOGICAL DIFFERENTIATION OF VIRUSES IN THE TICK-BORNE ENCEPHALITIS SUBGROUP BY THE GEL-DIFFUSION METHOD.
N E Gorev A A Smorodincev
World Health Organ Bull 38(3):389-399
1968 449.9 W892B
Diffusion, Encephalitis, Gels, Human diseases, Insect vectors, Ixodides, Serological tests, Viruses.
French summary

16503-68
ARBOVIRUS STUDIES IN BUSH BUSH FOREST, TRINIDAD, W. I. SEPTEMBER 1959-DECEMBER 1964. VI. RODENT-ASSOCIATED VIRUSES (VEE AND AGENTS OF GROUP C AND GUAMA): ISOLATIONS AND FURTHER STUDIES.
A H Jonkers L Spence W G Downs T B G Aitken C B Worth
Amer J Trop Med Hyg 17(2):285-298 REF
Mar 1968 44B.8 AM326
Arboviruses, Culicidae, Insect vectors, Rodents, Serological tests.

16504-68
MEASURING MOSQUITO REPELLENCY.
F E Kellogg D J Burton R H Wright
Can Entomol 100(7):763-768
Jul 1968 421 C16
Culicidae, Equipment, Insect repellents.
Abstract

16505-68
FIELD STUDY OF THE SAFETY OF ABATE FOR TREATING POTABLE WATER AND OBSERVATIONS ON THE EFFECTIVENESS OF A CONTROL PROGRAMME INVOLVING BOTH ABATE AND MALATHION.
E B Laws V A Sedlak J W Miles C R Joseph J R Lacomba
World Health Organ Bull 38(3):439-445
1968 449.9 W892B
Abate, Aedes aegypti, Human diseases, Insect control, Insect vectors, Malathion, Research, Toxicology, Water treatment.
French summary

16506-68
RECENT ADVANCES IN TECHNIQUES FOR TSETSE FLY CONTROL: WITH SPECIAL REFERENCE TO NORTHERN NIGERIA.
K J R MacLennan
World Health Organ Bull 37(4):615-628 REF
1967 449.9 W892B
Biology, Ecology, Glossina, Insect control, Insect vectors, Insecticides, Trypanosomiasis.
French summary

165D7-68
UKAUWA VIRUS PROLIFERATION IN MOSQUITOS.
O Ogunbi
Can J Microbiol 14(2):125-129 REF

Feh 1968 448.8 C162
Aedes aegypti, Aedes canadensis, Aedes triseriatus, Arboviruses, Injections, Insect vectors, Mice, Reproduction, Thorax, Ukauwa virus.
Abstract: Immediately after inoculation, an eclispe phase with lack of detection of infectivity was observed 6 hours later, and was followed by initial recovery of virus (1.0 log mouse LD50) at 12 hours, thereafter steady virus increments in salivary glands, gut and legs,reaching the maximum titers of 5.4 to 6.3 log mouse in 4 days.

16508-6B
GROWTH OF ARBOVIRUSES IN PRIMARY TISSUE CULTURE OF AEDES AEGYPTI EMBRYOS.
J Peleg
Amer J Trop Med Hyg 17(2):219-223 REF
Mar 1968 448.8 AM326
Aedes aegypti, Agglutination test, Arboviruses, Eastern equine encephalomyelitis virus, Semliki forest virus, Tissue culture, Volumetric analysis, West nile virus.

16509-68
THE LIFE CYCLE OF TRICHINELLA SPIRALIS. I. INTESTINAL PHASE OF DEVELOPMENT.
C S Shanta E Meerovitch
Can J Zool 45(6,PT.2):1255-1260 REF
Nov 1967 470 C16D
Animal diseases, Intestines, Metamorphosis, Molting (insects), Morphology, Trichinella spiralis.
Abstract: Amphids observed after post infection; they increased in size until 6th hour then regressed and disappeared. The function of these amphids is believed to be related to osmoregulation.

20 CROP PROTECTION

16510-68
A COMPARISON OF ANNUAL CROPS FOR SEED AND RESIDUE IN THE SEMI-ARID REGION OF WESTERN CANADA.
C H Anderson
Can J Plant Sci 48(3):287-291
May 1968 450 C16
Grain, Oilseeds, Seed analysis, Soil-binding plants, Stubble.
Abstract: Eight cereal and oilseed crops were tested to compare their yields of seed and stubble residue for purposes of soil erosion control.

16511-6B
UPTAKE AND METABOLISM OF INDOLEACETIC ACID, NAPHALENE-ACETIC ACID, AND 2,4-DICHLOROPHENOXYACETIC ACID BY PEA ROOT SEGMENTS IN RELATION TO GROWTH INHIBITION DURING AND AFTER AUXIN APPLICATION.
W A Andreae
Can J Bot 45(5):737-753 REF
May 1967 470 C16C
D, 2,4-, Indoleacetic acid, Metaholism, Naphthaleneacetic acid, Peas, Plant growth inhibitors, Plant hormones.
Abstract: Growth inhibition by applied auxins is independent of the rate of auxin uptake, accumulation of auxin or auxin metaholites in the tissue, or the subsequent loss of accumulated auxin from the tissues.

16512-6B
CULTURAL STUDIES OF SEXUAL REPRODUCTION OF CERATOCYSTIS FAGACEARUM.
W R Bell C L Fergus
Can J Bot 45(8):1235-1242 REF
Aug 1967 470 C16C
Agar, Biochemistry, Ceratocystis fagacearum, Conidia, Fungi, Hermaphroditism, Hydrogen-ion concentration, Plant reproduction.
Abstract: The optimum KH2 PO4 concentration for perithecium production by C. fagacearum in a semi-synthetic agar medium was 7.4 x 10-4 M. A great reduction in the number of perithecia occurred at 0.1 M and none were formed at 0.2 M concentration.

16513-68
STUDIES ON LETTUCE SEED GERMINATION. I. COUMARIN INDUCED DORMANCY.
H M M Berrie W Parker B A Knights M R Hendrie
Phytochemistry 7(4):567-573
Apr 1968 450 P5622
Biochemistry, Coumarin, Gibberellins, Lettuce, Photosensitization, Seed dormancy, Seed germination.
Abstract: On the basis of the findings it is proposed that the coumarins and isocoumarins which induce light sensitive dormancy in plants may act as anti-gibberllins.

16514-68
A THESIS OF MME G. RICOU, ON LASTING PRAIRIE PASTURAGE, A BIOCENOLOGICAL STUDY OF NATURAL ENVIRONMENT. (FR)
D L Bonnemaison
Phytoma 19(188):39
May 1967 464.8 P563
Ecology, Grasses, Pastures, Prairies, Research, Theses.

16515-68
INJURY TO SUGAR BEET LEAVES THROUGH GROWTH INHIBITING HERBICIDES.
Z Caca
Nachrichtenbl Deut Pflanzenschutzdienstes 19(11):161-162
Nov 1967 442.9 B832
Herbicides, Leaves, Plant injuries, Plant physiology, Sugar beets.

16516-68
ATMOSPHERIC POLLUTION AND ITS EFFECTS ON VEGETATION. (FR)
L Cormis
Phytoma 19(187):25-30
Apr 1967 464.8 P563
Air pollution, Anagallis arvensis, Plantago lanceolata, Stellaria media, Tissues, Vegetation.

16517-68
A NOTE ON TRANSLOCATION-TRISOMIC PLANT FROM GAMMA-IRRADIATED BARLEY.
K Das B C Goswami
Cytologia 32(1):55-58
Mar 1968 442.8 C99
Barley, Cells, Chromosomes, Cytology, Gamma rays, Plant morphology, Plant translocation, Research, Sampling (statistics), Sterility.

16518-68
SPECTRAL DISTRIBUTION OF LIGHT IN FORESTS OF THE DOUGLAS FIR ZONE OF SOUTHERN BRITISH COLUMBIA.
S Freyman
Can J Plant Sci 48(3):326-328
May 1968 450 C16
Light, Plant ecology, Plant growth inhibitors, Pseudotsuga menziesii.

16519-68
ION UPTAKE OF SWEET POTATO ROOTS INFECTED BY THE BLACK ROT FUNGUS.
H Imaseki K Akutsu I Uritani
Plant Cell Physiol 8(4):753-758 REF
Dec 1967 450 P699
Adsorption, Black rot (sweetpotatoes), Ceratocystis fimbriata, Fungi, Ions, Parasitism, Plant diseases, Plant metabolism, Roots, Tissues.

16520-68
EFFECT OF BORON ON RIBONUCLEIC ACID AND INDOLEACETIC ACID METABOLISM IN THE APICAL MERISTEMS OF SUNFLOWER PLANTS.
M M Jaweed E G Scott
W Va Acad Sci Proc 39:186-193 REF
1967 500 W52
Boron, Indoleacetic acid, Plant growth inhibitors, Plant metabolism, Plant regulators, Ribonucleic acid, Sunflowers.
Abstract: A comparison of the levels of RNA and IAA in normal and boron-depleted tissue indicated that boron deficiency decreases the RNA content and elevates IAA levels. It is proposed that boron checks excessive levels of IAA in plants and, thus, is responsible for keeping it in physiologically growth-promoting concentrations.

16521-68
THE UTILIZATION OF L-ASPARAGINE BY TWO SPECIES OF PHYTOPHTHORA.
J A Leal V G Lily M E Gallegly
W Va Acad Sci Proc 39:95-101
1967 500 W52
Asparagine, Chromatography, Fungi, Nitrogen, Phytophthora citricola, Phytophthora heveae, Plant growth inhibitors, Reproduction.

16522-68
METHOD OF INHIBITING PLANT GROWTH. PATENT 3,390,978.
J K Leasure O R Mussell
Us Patent Office Offic Gaz 852(1):153
02 Jul 1968 156.65 OF2
Halogen compounds, Patents, Plant growth inhibitors, Silanes.

16523-68
THE ROLE OF BIOLOGICAL CONTROL IN THE INTEGRATED PROGRAMS OF PLANT PROTECTION. (POL)
J J Lipa
Poznan Inst Ochrony Roslin Biul 36:23-31 REF
1967 464.9 P87
Agricultural research, Biological control (pests), Insect control, Plant protection.
English and russian abstract
Abstract

16524-68
MINERAL NUTRITION OF CACAO (THEOBROMA CACAO L.). COMPARISON OF PLANT GROWTH AND NUTRIENT CONTENT OF LEAVES OF SIX C.R.I. VARIETIES GROWN IN OPTIMUM AND DEFICIENT CONDITIONS IN SAND CULTURE.
R G Lockard E J A Asomaning
Can J Bot 45(5):681-689
May 1967 470 C16C
Cacao, Hydroponics, Plant breeding, Plant nutrition, Plant physiology, Potassium.
Abstract: The varieties tested were Amazon selections Nanay and Parinari, West African Amelonado and their hybrids, NyA, PaA, and NyPa. Nutrient levels in the leaves did not vary greatly between varieties, and apparently were not correlated with plant growth.

16525-68
GROWTH SUBSTANCES ISOLATED FROM WOODY CUTTINGS OF ALNUS GLUTINOSA MEDIC. AND FRAXINUS EXCELSIOR L.
J Mendez M D V Gesto A Vazquez E Vieitez E Seoane
Phytochemistry 7(4):575-579
Apr 1968 450 P5622
Alnus glutinosa, Chromatography, Fraxinus excelsior, Plant cuttings, Plant physiology, Plant regulators, Spectroscopy.

16526-68
RADIATION-INDUCED DAMAGE IN VEGETATIVE TISSUES OF PINUS RIGIDA MILL.
F Mergen R A Thielges
Cytologia 32(2):248-254 REF
Sep 1967 442.8 C99
Cytology, Pinus rigida, Plant injuries, Plant physiology, Radiation, Tissues, Vegetation.

16527-68
AMMONIATION PROCESS FOR DETOXIFYING THE SEEDS OF CRAMBE ABYSSINICA AND RAPE. PATENT 3,392,026.
G C Mustakas L O Kirk
Us Patent Office Offic Gaz 852(2):411
09 Jul 1968 156.65 OF2
Ammonium compounds, Crambe abyssinica, Glucose compounds, Patents, Poisonous plants, Rape, Toxins.

16528-68
INTERGRAFTING, PREVENTIVE MEASURES AGAINST THE 'COLLAR ROT' ON APPLES. (GER)
A Schmidle
Nachrichtenbl Dent Pflanzenschutzdienstes 20(2):22-23 REF
Feb 1968 442.9 N832
Apples, Collar rot (apples), Phytophthora cactorum, Plant breeding, Plant disease resistance, Plant grafting.

16529-68
RESPONSE OF ZIGZAG CLOVER GENOTYPES TO MANAGEMENT PRACTICES.
C E Townsend A O Dotzenko K R Storer F E Edlin
Can J Plant Sci 48(3):273-279
May 1968 450 C16
Crop losses, Crop yields, Plant growth inhibitors, Zigzag clover.
Abstract: Management practices were to harvest the ten types of zigzag clover prior to flowering, at early bloom, and at full bloom.

16530-68
A MORPHOLOGICAL AND BIOLOGICAL CONCEPT OF THE SPECIES CERATOCYSTIS FIMBRIATA.
R E Webster E E Butler
Can J Bot 45(9):1457-1468 REF
Sep 1967 470 C16C
Ceratocystis fimbriata, Plant breeding, Plant geography, Plant morphology, Plant taxonomy.
Isolated from different plants and geographic locations

16531-68
THE PRESENT AND THE FUTURE OF PLANT PROTECTION. (POL)
W Wegorek
Poznan Inst Ochrony Roslin Biul 36:9-22 REF
1967 464.9 P87
Insecticides, Plant disease control, Plant pest control, Plant protection, Productivity.
English and russian abstract
Abstract

16532-68
AN EXPOSURE CHAMBER FOR STUDYING THE EFFECTS OF AIR POLLUTION ON PLANTS. (ABSTRACT).
F A Wood O B Drummond R G Wilhour O O Davis
Phytopathology 58(4):404
Apr 1968 464.8 P56
Air pollution, Equipment, Ozone, Peroxyacetyl nitrate.

Diseases

16533-68
IMMUNODIFFUSION TESTS WITH THREE ISOLATES OF BARLEY YELLOW DWARF VIRUS. (ABSTRACT).
A I E Aapola W F Rochow
Phytopathology 58(4):398
Apr 1968 464.8 P56
8arley, Immunodiagnosis, Insect vectors, Macrosiphum avenae, Rhopalosiphum padi, Serological tests, Virus diseases (plants), Yellow dwarf (barley).

16534-68
ROOT EXUDATES FROM RED PINE SEEDLINGS AND THEIR EFFECTS ON PYTHIUM ULTIMUM.
V P Agnihotri O Vaartaja
Can J Bot 45(7):1D31- 104D REF
Jul 1967 47D C16C
Amino acids, Chromatography, Exudates, Fungus diseases (plants), Growth factors, Pinus resinosa, Pythium ultimum, Root rot (pinus resinosa), Roots, Seedlings, Sugars.
Abstract

16535-68
AMINO ACIDS FROM HETERODERA GLYCINES LARVAE. (ABSTRACT).
S Aist R D Riggs
Phytopathology 57(8):801
Aug 1967 464.8 P56
Amino acids, Heterodera glycines, Larvae, Nematodes, Plant nematode resistance.

16536-68
THE SENSITIVITY OF FUNGI TO ALPHA-TOMATINE.
Pa Arneson R D Durbin
Phytopathology 58(4):536-537
Apr 1968 464.8 P56
Alkaloids, Fungi, Fungicides, Fungus diseases (plants), Glucose, Plant disease control, Tomatine, Tomatoes.

16537-68
AN INTERNATIONAL SET OF RICE VARIETIES FOR DIFFENTIATING RACES OF PIRICULARIA ORYZAE.
J G Atkins A L Robert C R Adair K Goto T Kozaka R Yanagida M Yamada S Matsumoto
Phytopathology 57(3):297-3D1
Mar 1967 464.8 P56
Crop varieties, Fungus diseases (plants), Rice.

16538-68
A 8AITING METHOD FOR ESTIMATING THE SAPROPHYTIC ACTIVITY OF SCLEROTIUM ROLFSII IN SOIL.
Z Avizohar-Hershenzon P Shacked
Phytopathology 58(4):410-413 REF
Apr 1968 464.8 P56
8aits, Beets, Carrots, Saprophytes, Sclerotium rolfsii, Soil microorganisms, Sorghum.

16539-68
INTERACTION OF MAJOR FACTORS INFLUENCING SEVERITY OF BEAN ROOT ROT. (ABSTRACT).
R Baker C L Maurer
Phytopathology 57(8):8D2
Aug 1967 464.8 P56
Beans, Fungus diseases (plants), Fusarium solani phaseoli, Plant disease resistance, Root rot (beans).

16540-68
THE EVOLUTION OF APPLE AND PEARTREE SPOT DISEASE DURING THE YEAR 1966. (FR)
F Barbotin
Phytoma 19(188):29-31
May 1967 464.8 P563
Apples, Evolution, Frnit, Leaves, Pears, Tree diseases, Trees.

16541-68
THE INFLUENCE OF ORGANIC SOIL AMENDMENT ON COMMON SCA8 OF POTATO.
K C 8asu-Chaudhary
Indian Phytopathol 20(3):203-205 REF
Sep 1967 464.8 IN2
Plant diseases, Scab (potatoes), Soil conservation, Soil organic matter, Streptomyces scabies.

16542-68
SOME FACTORS RELATED TO THE PRODUCTION OF A BROWN DIFFUSIBLE PIGMENT 8Y XANTHOMONAS PHASEOLI VAR. FUSCANS (AHSTRACT).
P K Basu
Phytopathology 57(8):803
Aug 1967 464.8 P56
Bacterial diseases (plants), Pigments (plant), Xanthomonas phaseoli.

16543-68
EFFECT OF TOBACCO MOSAIC VIRUS INFECTION ON GLUCOSE METABOLISM IN NICOTIANA TABACUM VAR. SAMSUN. I. INVESTIGATIONS WITH 14C-LABELED SUGARS.
J R Baur R S Halliwell R Langston
Virology 32(3):4D6-412
Jul 1967 448.8 V81
Carbon isotopes, Glucose, Metabolism, Mosaic (tobacco), Tobacco, Virus diseases (plants).
Abstract: Percent participation of the Embden-Meyerhof-Parnas glolytic pathway and the hexose monophosphate shunt in leaf tissues of tobacco mosaic virus-infected Nicotiana tabacum L. var. Samsun was calculated by three technigues based on the recovery of 14CO2 from glucose-1-14C and glucose-6-14C substrates.

16544-68
GROWTH OF THE HYPERPARASITE DARLUCA FILUM ON A CHEMICALLY DEFINED MEDIUM.
G A Bean
Phytopathology 58(2):252-253
Feb 1968 464.8 P56
Culture media, Darluca filum, Fungus diseases (plants), Parasitism, Uredinales.

16545-68
AVIRULENCE OF A METHIONINE-SENSITIVE LEUCINE MUTANT OF PENICILLIUM EXPANSUM IN JONATHAN APPLE. (ABSTRACT).
L Beraha E D Garber
Phytopathology 57(8):803-8D4
Aug 1967 464.8 P56
Apples, Fungus diseases (plants), Leucine, Methionine, Mutation, Penicillium expansum.

16546-68
PRODUCTION OF THE PERFECT STAGE OF BOTRYOTINIA (BOTRYTIS) SQUAMOSA UNDER CONTROLLED ENVIRONMENTAL CONDITIONS. (ABSTRACT).
E R Bergquist J W Lorbeer
Phytopathology 58(4):398
Apr 1968 464.8 P56
Botryotinia squamosa, Botrytis, Culture media, Fungus diseases (plants), Growth factors, Lighting, Temperature, Wheat.

16547-68
THE PHYSIOLOGY OF HOST-PARASITE RELATIONS. XIX. FURTHER OBSERVATIONS ON NUCLEOPROTEIN CHANGES IN WHEAT LEAF NUCLEI DURING RUST INFECTION.
P K Bhattacharya M Shaw J M Naylor
Can J Bot 46(1):11-16 REF
Jan 1968 470 C16C
Cell nucleus, Deoxyribonucleic acid, Fungus diseases (plants), Nucleoproteins, Parasitic plants, Plant physiology, Puccinia graminis tritici, Stem rust (wheat), Wheat.
Abstract: Profound changes in nuclear metabolism are induced by infection with the rust fungus.

16548-68
CARBON DIOXIDE EXCHANGE BY RADISH TISSUE INFECTED WITH ALBUGO CANDIDA MEASURED WITH AN INFRARED CD2 ANALYZER.
L L Black D T Gordon P H Williams
Phytopathology 58(2):173-178 REF
Feb 1968 464.8 P56
Albugo candida, Carbon dioxide, Fungus diseases (plants), Parasitism, Photosynthesis, Plant respiration, Radishes.

16549-68
SOME PROBLEMS OF THE STUDIES ON NARROW LEAF VIRUS DISEASE OF YELLOW LUPIN. (POL)
W Blaszczak
Poznan Inst Ochrony Roslin Biul 36:187-199 REF
1967 464.9 P87
Epidemiology, Lupine, Virus diseases (plants).
English and russian abstract
Abstract

16550-68
EBWINIA AMYLOVORA (BURR.) WINSL. IN POLAND.
Z Borecki K Lyskanowska
Phytopathol Z 61(2):157-166 REF
Feb 1968 464.8 P562
Apples, Bacterial diseases (plants), Erwinia amylovora,
Fire blight (fruit), Pears.
English and German summaries.
Abstract

16551-68
CROWN RUST RESISTANCE IN TALL OATGRASS. (ABSTRACT).
S W Braverman
Phytopathology 57(8):805
Aug 1967 464.8 P56
Arrhenatherum elatius, Crop varieties,
Crown rust (Arrhenatherum), Fungus diseases (plants),
Plant disease resistance, Puccinia coronata.

16552-68
VERTICILLIUM WILT REACTIONS IN COTTON AS AFFECTED BY
POSTINOCULATION TEMPERATURES. (ABSTRACT).
L A Brinkerhoff E Samayoa J C Murray
Phytopathology 57(8):805
Aug 1967 464.8 P56
Cotton, Fungus diseases (plants), Temperature,
Verticillium albo-atrum, Wilt (cotton).

16553-68
KNOWLEDGE OF SEPTORIA NODORUM BERK., THE CAUSE OF LEAF
BLOTCH AND GLUME BLOTCH IN WHEAT. (GE)
A Bronniman
Phytopathol Z 61(2):101-146 REF
Feb 1968 464.8 P562
Fungus diseases (plants), Glume blotch (wheat),
Leaf spot (wheat), Septoria nodorum.
English, French, and German summaries.
Abstract

16554-68
VIABILITY IN VITRO OF THE SMALLEST SPORES OF CERATOCYSTIS
ULMI FOLLOWING CENTRIFUGATION AND MICROFILTRATION.
(ABSTRACT).
H G Brotzman R J Campana
Phytopathology 58(4):398
Apr 1968 464.8 P56
Asexual reproduction, Centrifugation, Ceratocystis,
Ceratocystis ulmi, Culture media, Filters.

16555-68
ENTRY OF STEM-END ROT FUNGI IN FLORIDA ORANGES. (ABSTRACT).
G E Brown W C Wilson
Phytopathology 57(8):805
Aug 1967 464.8 P56
Diplodia natalensis, Fungus diseases (plants), Oranges,
Phomopsis citri, Stem end rot (citrus).

16556-68
THE PROBABLE SIGNIFICANCE OF SAPROPHYTIC COLONIZATION OF
WHEAT STRAW IN THE FIELD BY CEPHALOSPORIUM GRAMINEUM.
G W Bruehl P Lai
Phytopathology 58(4):464-466
Apr 1968 464.8 P56
Cephalosporium gramineum, Fungus diseases (plants),
Microorganisms, Plant disease resistance, Saprophytes, Straw.

16557-68
RESPONSES OF GERMINATING RHIZOPUS STOLONIFER SPORANGIO-
SPORES TO HEATING, CHILLING, GAMMA IRRADIATION, AND
ANOXIA. (ABSTRACT).
P M Buckley N P Sommer T T Matsumoto M Lly
Phytopathology 57(8):806
Aug 1967 464.8 P56
Anoxia, Cold, Fungus diseases (plants), Gamma rays, Heat,
Rhizopus stolonifer, Spore germination.

16558-68
PATHOGENICITY AND PHYSIOLOGY OF PYTHIUM VEXANS. (ABSTRACT).
R A Calderone R P True
Phytopathology 57(8):806
Aug 1967 464.8 P56
Fungus diseases (plants), Pinus resinosa, Pinus rigida,
Pinus strobus, Plant physiology, Pythium vexans.

16559-68
A DYNAMIC-EQUILIBRIUM ILLUMINATED TEMPERATURE-, HUMIDITY-,
AND POLLUTANT-CONTROLLED PLANT FUMIGATION CHAMBER.
(ABSTRACT).
A M Cantwell D J Morton
Phytopathology 57(8):806
Aug 1967 464.8 P56
Air pollution, Environmental control, Equipment, Fumigation,
Humidity, Light, Plants, Temperature.

16560-68
ELECTRON MICROSCOPICAL PROOF OF THE PRESENCE OF SUGAR BEET
YELLOWS VIRUS PARTICLES IN THE ROOTS OF SUGAR BEETS.
J Chod J Polak O Klir
Biol Plant 10(2):142-145 REF
1968 450 B52
Electron microscopy, Roots, Sugar beets,
Virus diseases (plants), Yellows (sugar beets).
English, russian and polish abstract
Abstract

16561-68
MONACROSPORIUM RUTGERIENSIS SP. N., A NEMATODE-TRAPPING
HYPHOMYCETE.
B C Cooke D Pramer
Phytopathology 58(4):544-545
Apr 1968 464.8 P56
Monacrosporium rutgeriensis, Nematodes, Predaceous fungi,
Taxonomy.

16562-68
INFECTION OF NEEDLES OF PINUS STROBUS BY LOPHODERMIUM
PINASTRI. (ABSTRACT).
A C Costonis W A Sinclair
Phytopathology 58(4):398
Apr 1968 464.8 P56
Fungus diseases (plants), Lophodermium, Lophodermium pinastri,
Needle blight (pinus), Pinus strobus.

16563-68
MINERAL OIL SPRAY SUPPRESSED SYMPTOMS OF VIRUS YELLOWS ON
SUGAR BEETS. (ABSTRACT).
G L Crane L Calpouzos
Phytopathology 57(8):807-808
Aug 1967 464.8 P56
Insect vectors, Mineral oil, Myzus persicae,
Plant disease transmission, Sugar beets,
Virus diseases (plants), Yellows (sugar beets).

16564-68
SELECTIVE FUSARIC ACID (FA) PRODUCTION ON SYNTHETIC SUB-
STRATES BY FORMS OF FUSARIUM OXYSPORUM. (ABSTRACT).
D Davis
Phytopathology 58(4):399
Apr 1968 464.8 P56
Absorption spectra, Butyl picolinic acid, 5-, Culture media,
Fusarium oxysporum, Watermelons.

16565-68
RELATIVE SENSITIVITY OF TWENTY-TWO TREE SPECIES TO OZONE.
(ABSTRACT).
D D Davis F A Wood
Phytopathology 58(4):399
Apr 1968 464.8 P56
Ozone, Plant injuries, Trees.

16566-68
ACTIVITY OF SOIL FUMIGANTS IN RELATION TO INCREASED GROWTH
RESPONSE AND CONTROL OF DECLINE AND BACTERIAL CANKER IN
TREES OF PRUNUS PERSICA. (ABSTRACT).
J E De Vay J E Lownsbery W H English H Lembright
Phytopathology 57(8):809
Aug 1967 464.8 P56
Bacterial diseases (plants), Canker (peaches),
Decline (peaches), Fumigants, Peaches, Plant nematodes,
Pseudomonas syringae, Pythium, Soil fumigation.

16567-68
FIELD STUDIES ON CONTROL OF LYGUS BUGS AND ONION THRIPS
INFESTING SAFFLOWER.
L J DePew
J Econ Entomol 60(5):1224-1226
Oct 1967 421 J822
Bayer 25141, Diazinon, Fenthion, Lygus, Phosphamidon,
Safflower, Thrips.

16568-68
LEPTOGRAPHIUM ROOT DECLINE OF EASTERN WHITE PINE.
(ABSTRACT).
L S Dochinger
Phytopathology 57(8):809
Aug 1967 464.8 P56
Cambium, Leptographium, Pinus strobus,
Root rot (Pinus strobus).

16569-68
YELLOW RUST OF WHEAT.
D A Doling
Great Brit Min Agr Fish Food Bull 527:1-4
1967 10 G794B
Crop varieties, Fungus diseases (plants), Plant pest resistance, Rust (wheat), Uredinales, Wheat.

16570-68
EFFECTS OF N, P, K, AND INOCULUM DENSITY OF VERTICILLIUM DAHLIAE ON POPULATIONS OF PRATYLENCHUS PENETRANS IN ROOTS OF AMERICAN ELM AND SUGAR MAPLE. (ABSTRACT).
L D Dwinell W A Sinclair
Phytopathology 57(8):810
Aug 1967 464.8 P56
Acer saccharum, Fungus diseases (plants), Nitrogen, Phosphorus, Plant nematodes, Potassium, Pratylenchus penetrans, Ulmus americana, Verticillium dahliae, Wilt (Acer), Wilt (Ulmus).

16571-68
BIOLOGICAL DECOMPOSITION OF AN OXATHIIN FUNGICIDE. (ABSTRACT).
L V Edgington C Corke
Phytopathology 57(8):810
Aug 1967 464.8 P56
Dihydro-5-carboxanilido-6-methyl-1,4-oxathiin, 2,3-, Fungicides, Fungus diseases (plants), Uredinales, Ustilago maydis.

16572-68
SYSTEMIC ACTION OF 2-CBLORO-4-DIISOBUTYL-6-NITROPHENOL AGAINST POWDERY MILDEW OF SNAPBEAN. (ABSTRACT).
M M El-Zayat R J Lukens J G Horsfall
Phytopathology 57(8):810
Aug 1967 464.8 P56
Beans, Chloro-4-diisobutyl-6-nitrophenol, 2-, Erysiphe polygoni, Fungus diseases (plants), Phenols, Powdery mildew (beans).

16573-68
STIMULATION BY 2,4-D AND 2,4-D PLUS PE EDTA OF 32P UPTAKE BY BEAN SEEDLINGS (PHASEOLUS VULGARIS).
H M Etter
Can J Bot 45(4):535-537
Apr 1967 470 C16C
Barley, Beans, D, 2,4-, Ethylenediaminetetraacetic acid, Iron, Phosphorus isotopes, Plant growth inhibitors, Radioactive tracers, Tobacco.

16574-68
A SETTLING TOWEB FOR QUANTITATIVE INOCULATION OF LEAF BLADES OF MATURE SMALL GRAIN PLANTS WITH UBEDIOSPOBES.
Z Eyal R C Clifford B M Caldwell
Phytopathology 58(4):530-531
Apr 1968 464.8 P56
Equipment, Fungi dissemination, Fungus diseases (plants), Puccinia coronata, Urediospores.

16575-68
PYTHIUM POD BOT OF PEANUT.
Z R Frank
Phytopathology 58(4):542-543
Apr 1968 464.8 P56
Fungus diseases (plants), Peanuts, Pod blight (peanuts), Pythium.

16576-68
EFFECT OF LIGHT ON SPORULATION OF HELMINTHOSPORIUM STENOSPILUM. (ABSTRACT).
T E Freeman B H Luke
Phytopathology 57(8):811
Aug 1967 464.8 P56
Cynodon dactylon, Fungus diseases (plants), Helminthosporium stenospilum, Light, Plant physiology.

16577-68
PBESCRIBED FIRE AS A POSSIBLE CONTBOL FOB POMES ANNOSUS. (ABSTRACT).
R C Froelich T R Dell
Phytopathology 57(8):811
Aug 1967 464.8 P56
Fire, Pomes annosus, Fungus diseases (plants), Pinus.

16578-68
EJECTION AND DISSEMINATION OF ASCOSPOBES OF HYPOXYLON PRUINATUM.
J D Froyd D W French
Can J Bot 45(9):1507-1517 BEP
Sep 1967 470 C16C
Ascospores, Humidity, Hypoxylon pruinatum, Plant dissemination, Reproduction, Temperature.

16579-68
PREPARATION OF ANTISERUM AGAINST STOLBUR VIRUS.
R Gaborjanyi M Rencsics
Acta Phytopathol 3(1):31-33
1968 SB731.A3
Potatoes, Preventive medicine, Serological tests, Serum, Stolbur (potatoes), Stolbur (tomatoes), Tomatoes, Virus diseases (plants).

16580-68
POLYPHENOLS AND DISCOLOBATION IN THE ELM DISEASE INVESTIGATED BY HISTOCHEMICAL TECHNIQUES.
C Gagnon
Can J Bot 45(11):2119-2124 BEP
Nov 1967 470 C16C
Ceratocystis, Histochemistry, Injections, Phenols, Plant diseases, Ulmus americana.
Abstract: Phenolic compounds may interfere with sap movement by action on living cells or by participation in the occlusion of vessels. They may also act as toxins.

16581-68
COMPETITIVE INHIBITION BY FOREIGN NUCLEIC ACID AND INDUCED INTERFEBENCE BY YEAST-BNA WITB THE INFECTION OF TOBACCO MOSAIC VIRUS.
G Gicherman G Loebenstein
Phytopathology 58(4):405-409 BEP
Apr 1968 464.8 P56
Foreign bodies, Interference phenomenon, Mosaic (tobacco), Nucleic acids, Plant growth inhibitors, Ribonucleic acid, Yeasts.

16582-68
THE INFLUENCE OF VOLATILE SUBSTANCES FROM ALFALFA ON SOIL BESPIRATION AND SURVIVAL OF SOIL FUNGI. (ABSTRACT).
R G Gilbert G E Griebel J O Menzies
Phytopathology 57(8):812
Aug 1967 464.8 P56
Alfalfa, Bespiration, Soil fungi, Soils.

16583-68
DIFFERENTIATION OF THREE SPECIES OF PHYTOPHTHOBA BY POLYACRYLAMIDE GEL ELECTBOPHOBESIS. (ABSTRACT).
H S Gill D Powell
Phytopathology 57(8):812
Aug 1967 464.8 P56
Acrylamide polymers, Electrophoresis, Gels, Phytophthora.

16584-68
MYCOECOLOGY OF WILLOW AND COTTONWOOD LOWLAND COMMUNITIES IN SOUTBEBN WISCONSIN. I. SOIL MICROFUNGI IN TBE WILLOW-COTTONWOOD FOBESTS.
S E Gochenaur W F Whittingham
Mycopathol Mycol Appl 33(2):125-139 BEP
13 Nov 1967 450 M994
Culture media, Fungus diseases (plants), Populus deltoides, Salix nigra, Soil fungi.

16585-68
SUBSTANCES, INDUCING PLANT RESISTANCE TO PATHOGENIC FUNGI AND THE PROBLEM OF ANTIMETABOLITES. (POL)
J Gorska-Poczopko K Sawicki
Poznan Inst Ochrony Roslin Biul 36:163-176
1967 464.9 P87
Antimetabolites, Fungi, Fungicides, Plant disease resistance.
English and russian abstract
Abstract

16586-68
CEBATOCYSTIS FAGACEABUM DISTRIBUTION WITBIN BUB AND BED OAK SEEDLINGS. (ABSTBACT).
G F Gregory
Phytopathology 58(4):399
Apr 1968 464.8 P56
Ceratocystis fagacearum, Fungus diseases (plants), Microorganisms, Quercus, Quercus macrocarpa, Wilt (quercus).

16587-68
INDUCED SPORULATION OF BOTBYODIPLODIA THEOBROMAE PAT. ISOLATED FROM ARAUCARIA CUNNINGRAMII AIT. IN MALAYSIA.
D A Griffiths
Mycopathol Mycol Appl 33(3-4):273-279 BEP
13 Dec 1967 450 M994
Araucaria cunninghamii, Botrydiplodia theobromae, Culture media, Fungus diseases (plants), Reproduction.
A wound parasite. Synonymy with Diplodia natalensis questioned.

16588-68
ISOLATION AND CHARACTERIZATION OF BARLEY STRIPE MOSAIC VIRUS PROTEIN.
D J Gnmpt R I Hamilton
Virology 35(1):87-93 REF
May 196B 448.8 VB1
Antigens, Calcium chloride, Nucleic acids, Polymerization, Proteins, Stripe mosaic (harley), Virus diseases (plants).

16589-68
SYSTEMIC OXATHIIN FUNGICIDE FOR CONTROL OF LOOSE SMUT (USTILAGO TRITICI) OF WINTER WHEAT. (ABSTRACT).
E D Hansing
Phytopathology 57(B):814
Aug 1967 464.B P56
Dihydro-5-carhoxanilido-6-methyl-1,4-oxathiin, 2,3-, Fungicides, Fungus diseases (plants), Loose smut (wheat), Ustilago tritici, Wheat.

16590-68
INDUCTION OF LETTUCE ROOT ROT UNDER CONTROLLED ENVIRONMENTAL CONDITIONS. (ABSTRACT).
J P Hartnett J W Lorbeer
Phytopathology 58(4):399
Apr 1968 464.8 P56
Culture media, Fungus diseases (plants), Lettuce, Plant disease resistance, Root rot (lettuce).

16591-68
PROCESS FOR OXIDIZING SOLURLE ALKYLENE BISDITHIOCARBAMATES TO PRODUCE AN OXYGEN CONTAINING PRODOCT, AND THE PRODUCT OF SAID PROCESS. PATENT 3,401,182.
A M Harvey L A Brooks
Us Patent Office Offic Gaz 854(2):496-497
10 Sep 1968 156.65 OP2
Chemical control (plant diseases), Crops, Dithiocarhamates, Fungicides, Fungus diseases (plants), Infrared spectra, Methodology, Patents, Potatoes.

16592-68
APPLICATION OF COTYLEDONARY SYMPTOMS IN SCREENING FOR RESISTANCE TO TOMATO BACTERIAL CANKER AND IN BOST RANGE STUDIES.
A A Hassan D L Strider T R Konsler
Phytopathology 58(2):233-239
Feh 1968 464.8 P56
Bacterial diseases (plants), Corynebacterium michiganense, Culture media, Plant disease resistance, Tomatoes.

16593-68
FACTORS AFFECTING THE PATHOGENICITY OF SELECTED FUNGI ISOLATED FROM PUTTING GREEN TURF.
M J Healy
Diss Abstr Sect B 2B(12,PT.2):4834B-4835B
Jun 1968 Z5055.U49D53
Agrostis palustris, Fungus diseases (plants), Golf courses, Poa annua, Turf.

16594-68
TBREE-YEAR EFFECTS OF SYSTEMIC FONGICIDES APPLIED FOR THE CONTROL OF CYTOSPORA IN ITALIAN PRUNE TREE.
A W Helton W J Kochan
Can J Bot 45(11):2017-2024
Nov 1967 470 C16C
Cytospora, Fungicides, Fungus diseases (plants), Plant protection, Prunus domestica, Spraying.
Abstract: CTS (cycloheximide thiosemicarhazone) superior to Phytoactin and 8-guinolinol benzoate; CTS nearly halted canker expansion and increased yield.

16595-68
STEM RESISTANCE TO BLACK SHANK IN BURLEY TOBACCO DERIVED FROM NICOTIANA LONGIFLORA. (ABSTRACT).
J W Hendrix
Phytopathology 57(8):814
Aug 1967 464.8 P56
Black shank (tohacco), Fungus diseases (plants), Nicotiana longiflora, Phytophthora parasitica nicotianae, Plant disease resistance, Tohacco.

16596-68
TRANSMISSION BY DODDER OF A YELLOWS-TYPE VIRUS FROM DECLINING WHITE ASH. (ABSTRACT).
C R Hihben
Phytopathology 58(4):399
Apr 1968 464.8 P56
Cuscuta snbinclusa, Praxinns americana, Vinca rosea, Virus diseases (plants).

16597-68
THE EFFECT OF SUBSTITUTED DECENYL SUCCINIC ACID (DSA), AMIDES, ESTERS, AND 1,5-DIFLUORO-2,4-DINITROBENZENE (DFDNB) ON PREVENTING BLOSSOM FREEZING INJORY. (ABSTRACT).
M T Hilborn
Phytopathology 58(4):400
Apr 1968 464.8 P56
Amides, Apples, Blueberries, Difluoro-2,4-dinitrohenzene, 1,5-, Esters, Flowers, Frost control, Plant injnries, Succinates, Succinic acid compounds.

1659B-68
A STUDY OF TURES PRODUCED IN PLANTS INFECTED WITH A STRAIN OF TORNIP YELLOW MOSAIC VIRUS.
J H Hitchborn G J Hills
Virology 35(1):50-70 REF
May 196B 448.B V81
Rentonite, Centrifugation, Electron microscopy, Magnesium, Plant morphology, Virns diseases (plants), Yellow mosaic (turnips).

16599-68
ANATOMY OF READS ON FLAGELLA OF ZOOSPORES OF PHYTOPHTHORA MEGASPERMA VAR. SOJAE.
H H Ho K Zachariah C J Hickman
Can J Bot 45(9):1765-1766 REF
Sep 1967 470 C16C
Flagella, Histology, Phytophthora megasperma, Reproduction.

16600-6B
ETIOLOGY OF STRIPE SMUT, USTILAGO STRIIFORMIS (WEST.) NIESSL, ON MERION BLUEGRASS, POA PRATENSIS L.
C F Hodges
Diss Abstr Sect B 28(12,PT.1):4835B
Jun 1968 Z5055.U49D53
Fungus diseases (plants), Poa pratensis, Stripe smut (poa pratensis), Ostilago striiformis.

16601-6B
LEVELS OF SHIKIMATE AND FOLATE IN PRIMARY LEAVES OF WHEAT AND IN UREDOSPORES OF LEAF RUST.
D W Hollomon A Fuchs R Rohringer
Can J Bot 45(9):1771-1773 REF
Sep 1967 470 C16C
Chemical control (plant diseases), Folic acid, Leaf rust (wheat), Reproduction, Shikimic acid, Wheat.

16602-68
OVERWINTERING OF COLLETOTRICHUM FRAGARIAE IN STRAWBERRY CROWNS.
N L Horn R R Carver
Phytopathology 58(4):540-541
Apr 1968 464.8 P56
Colletotrichum fragariae, Crown rot (strawherries), Fungus diseases (plants), Hihernation, Strawherries.

16603-68
SUSCEPTIBILITY AND HYPERSENSITIVITY TO TOBACCO MOSAIC VIRUS IN WILD SPECIES OF POTATOES.
J Horvath
Acta Phytopathol 3(1):35-43
1968 SB731.A3
Hypersensitivity, Mosaic (tohacco), Plant disease resistance, Potatoes, Virus diseases (plants).

16604-68
EFFECT OF TEMPERATURE ON THE DEVELOPMENT OF MELOIDOGYNE INCOGNITA IN SWEETPOTATO. (ABSTRACT).
P Jatala L S Morrison
Phytopathology 57(8):B16
Aug 1967 464.8 P56
Meloidogyne incognita, Plant nematodes, Sweetpotatoes, Temperature.

16605-68
FACTORS AFFECTING RESPIRATION IN BARLEY YELLOW DWARF VIRUS-INFECTED BARLEY.
S G Jensen
Phytopathology 58(4):438-443
Apr 1968 464.8 P56
Barley, Plant respiration, Virus diseases (plants), Yellow dwarf (barley).

16606-68
ANTAGONISM OF BACTERIA FROM ELM TO CERATOCYSTIS OLMI IN VITRO. (ABSTRACT).
T R Jewell R J Campana
Phytopathology 5B(4)400
Apr 1968 464.B P56

Ceratocystis ulmi, Culture media, Fungus diseases (plants), Microbiology, Microorganisms, Plant disease resistance, Ulmus.

16607-68
EFFECT OF MAGNESIUM TRISILICATE ON THE INFECTIVITY OF TOBACCO MOSAIC VIRUS.
L Joshi H H Thornberry
Virology 35(1):169-171
May 1968 448.8 V81
Chemicals, Injections, Kidney beans, Leaves, Magnesium trisilicate, Marmor tabaci, Mosaic (tobacco), Plant disease control, Plant extracts, Plant residues, Virus diseases (plants).

16608-68
STUDIES ON THE INTERACTION OF P-MERCURIBENZOATE WITH TURNIP YELLOW MOSAIC VIRUS. V. INDUCED RIBONUCLEASE SENSITIVITY AND DEGRADATION OF THE VIRION.
J M Kaper F G Jenifer
Virology 35(1):71-81 REF
May 1968 448.8 V81
Bentonite, Buffer substances, Chloroform, Hydrolysis, Research, Virus diseases (plants), Yellow mosaic (turnips).

16609-68
REPRODUCTIVE POTENTIALS OF RACES 15B AND 56 OF WHEAT STEM RUST.
K Katsuya G J Green
Can J Bot 45(7):1077-1091
Jul 1967 470 C16C
Fungus diseases (plants), Puccinia graminis, Reproduction, Stem rust (wheat), Urediospores.
Abstract: Experimentation showed that the urediospores of race 56 were more infective than those of 15B-1 and that the incubation period of race 56 was shorter than that of race 15B-1. Infection density markedly affected competitive abilities. Race 56 tended to predominate in light infections but race 15B-1 tended to predominate in heavy infections.

16610-68
CYTOPATHOLOGY OF MIXED INFECTIONS WITH POTATO VIRUSES X AND Y IN NICOTIANA TABACUM LEAVES.
H E Kauffman
Diss Abstr Sect B 28(12,PT.1):4835B
Jun 1968 Z5055.U49D53
Acridine orange, Fluorescence microscopy, Plant cytology, Tobacco, Virus diseases (plants), Virus Y (tobacco), Virus x (tobacco).

16611-68
NATURAL OCCURRENCE OF TOBACCO RINGSPOT VIRUS PELARGONIUM IN ONTARIO.
W G Kemp
Can J Plant Sci 47(3):295-300 REF
May 1967 450 C16
Host indexing (plants), Pelargonium hortorum, Ring spot (Pelargonium), Serological tests, Virus diseases (plants).
Abstract: This report is believed to constitute the first record of natural infection of Pelargonium by this virus. Simultaneous-infection and serelogical tests show that ringspot virus associated with a disease P. hortorum is related to tobacco ringspot virus

16612-68
THE RELATIONSHIP OF PHYTOPHTHORA FRAGARIAE HICKMAN TO THE FUNGAL FLORA IN THE RHIZOSPHERE OF THE STRAWBERRY PLANT.
M N Khare
Diss Abstr Sect B 28(12,PT.1):4836B
Jun 1968 Z5055.U49D53
Antihiotics, Fungus diseases (plants), Phytophthora fragariae, Red stele (strawberries), Rhizosphere, Soil fungi, Strawberries.

16613-68
THE EFFECT OF LEAF WATER BALANCE ON THE SUSCEPTIBILITY OF FRENCH BEAN TO TOBACCO NECROSIS VIRUS.
W C Kimmins R E Litz
Can J Bot 45(11):2115-2118
Nov 1967 470 C16C
Beans, Leaves, Necrosis, Osmotic pressure, Plant disease resistance, Plant water relations, Tobacco, Virus diseases (plants).

16614-68
ELECTRON-MICROSCOPIC STUDIES ON THE CYTOPATHOLOGY OF MAIZE PLANTS INFECTED WITH THE MAIZE ROUGH DWARF VIRUS (MRDV).
N Kislev I Harpaz M Klein
Acta Phytopathol 3(1):3-12
1968 SB731.A3
Corn, Cytology, Electron microscopes, Research, Rough dwarf (corn), Virus diseases (plants).

16615-68
EXPERIMENTS WITH A NEW VIRUS DISEASE OF THE PEA TREE (CARAGANA ARBORESCENS LAM.).
J Kochman A Sikora
Phytopathol Z 61(2):147-156
Feb 1968 464.8 P562
Acyrthosiphon caraganae, Caragana arborescens, Virus diseases (plants).
English and German summaries.

16616-68
EFFECTS OF NITROGEN SOURCES ON GROWTH OF PHYTHIUM APHANIDERMATUM AND PYTHIUM ULTIMUM.
J M Kraft D C Erwin
Phytopathology 57(4):374-376
Apr 1967 464.8 P56
Fungi, Growth factors, Nitrogen.

16617-68
ANALYSIS OF ANNUAL OUTBREAKS OF PARASITIC FUNGI. II. QUALITATIVE AND QUANTITATIVE CHARACTERISTICS OF ATTACK CURVES. (GE)
J Kranz
Phytopathol Z 61(2):171-190 REF
Feb 1968 464.8 P562
Frequency distribution, Fungus diseases (plants), Statistical analysis.
English and German summaries.
Abstract

16618-68
HISTOLOGY OF CANKER RUSTS IN PINES.
R G Krebill
Phytopathology 58(2):155-164 REF
Feb 1968 464.8 P56
Cells, Cronartium, Cronartium comandrae, Fungus diseases (plants), Histology, Pinus, Uredinales.

16619-68
THE ROLE OF ALKALOIDS IN THE RESISTANCE OF SOME LUPIN VARIETIES TO THE PEA APHID /ACYRTHOSIPHON PISUM HARRIS/. (POL
J Krzymanska
Poznan Inst Ochrony Roslin Biul 36:237-247
1967 464.9 P87
Acyrthosiphon pisum, Alkaloids, Chemical control (plant diseases), Cultural control (plant diseases), Fungus diseases (plants), Lupine.
English and russian abstract
Abstract

16620-68
PERMEABILITY CHANGES IN PHASEOLUS AUREUS ASSOCIATED WITH INFECTION BY RHIZOCTONIA SOLANI.
M T Lai A R Weinhold J G Hancock
Phytopathology 58(2):240-245 REF
Feb 1968 464.8 P56
Cells, Enzymes, Fungus diseases (plants), Mung beans, Permeability, Rhizoctonia solani.

16621-68
DISEASES OF PITTED-FRUIT TREES, IN 1966. (FR)
P Latard
Phytoma 19(187):19-24
Apr 1967 464.8 P563
Cherries, Mortality, Peaches, Plums, Research, Tree diseases, Trees.

16622-68
A COMPARISON OF SOIL COLUMN AND PETRI DISH TECHNIQUES FOR THE EVALUATION OF SOIL FUNGITOXICANTS.
A J Latham M R Linn
Phytopathology 58(4):460-463 REF
Apr 1968 464.8 P56
Chemical control (plant diseases), Fungi, Fungicides.

16623-68
A GENETIC STUDY OF LEAF RUST RESISTANCE IN WHEAT.
C N Law R Johnson
Can J Genet Cytol 9(4):805-822 REF
Dec 1967 443.8 C16
Chromosomes, Immunization, Leaf rust (grain), Mutation, Plant breeding, Plant disease control, Plant disease resistance, Plant genetics, Triticum aestivum, Wheat.

16624-68
A QUANTITATIVE LOCAL LESION BIOASSAY FOR CORYNEBACTERIUM MICHGANEENSE.
R E C Layne
Phytopathology 58(4):534-535
Apr 1968 464.8 P56
Bacterial diseases (plants), Biological assay, Corynebacterium michiganense, Immunization, Tomatoes.

16625-68
CUCUMBER ANTHRACNOSE: INFLUENCE OF NIGHTLY WETTING OF LEAVES ON NUMBERS OF LESIONS.
C Lehen G C Daft
Phytopatholcgy 58(2):264-265
Feh 1968 464.8 P56
Anthracnose (cucumbers), Cucumbers, Fungus diseases (plants), Glomerella cingulata, Leaves, Seedlings.

16626-68
DETERMINATION OF VOLATILE ACID PRODUCTION OF CLOSTRIDIUM BY GAS CHROMATOGRAPHY.
V J Lewis C W Moss W L Jones
Can J Microhiol 13(8):1033-1040
Aug 1967 44B.B C162
Acetic acid, Bacterial vaccines, Butyric acid, Chromatography, Clostridium, Fatty acids, Metabolites.

16627-68
EFFECTS OF CYTOKININS ON THE ABSORPTION OF VICTORIN.
H H Luke T E Freeman
Phytopathology 58(2):258-259 REF
Feh 1968 464.8 P56
Cells, Cytokinins, Fungus diseases (plants), Helminthosporium victoriae, Metabolism, Oats, Victorin.

16628-68
THE INFLUENCE OF FUSARIUM ROOT ROT AND HARVESTING ON THE CARBOHYDRATE LEVELS OF ALFALFA ROOTS GROWN IN A GNOTOBIOTIC ENVIRONMENT. (ABSTRACT).
F L Lukezic R G Levine R B Carroll
Pnytopathology 58(4):4D1
Apr 1968 464.8 P56
Alfalfa, Carhohydrates, Fungus diseases (plants), Fusarium tricinctum, Harvesting, Root rot (alfalfa).

16629-68
INDOLEACETIC ACID OXIDASE ACTIVITY IN BANANA ROOTS.
M E Mace
Can J Bot 45(6):945-948 REF
Jun 1967 470 C16C
Bananas, Enzymes, Fungus diseases (plants), Fusarium oxysporum, Indoleacetic acid, Oxidases, Roots.

16630-68
INTEGRATED METHOD OF CONTROL OF PLANT DISEASES CAUSED BY FUNGI. (POL)
Z Maciejowska
Poznan Inst Ochrony Roslin Biul 36:249-256 REF
1967 464.9 P87
Biological control (pests), Cultural control (plant diseases), Fungus diseases (plants), Plant disease control.
English and russian abstract
Abstract

16631-68
THE EFFECTS OF MAIZE DWARF MOSAIC VIRUS ON MACRO- AND MICROELEMENT ACCUMDLATION IN CORN TISSUE OF RESISTANT AND SUSCEPTIBLE HYBRIDS. (ABSTRACT).
D R MacKenzie H Cole
Phytopathology 58(4):401
Apr 1968 464.8 P56
Breeding, Dwarf disease (corn), Mosaic (corn), Plant disease resistance, Virus diseases (plants).

16632-68
FACTORS AFFECTING THE GERMINATION OF BASIDIOSPORES OF THE HEART ROT FUNGUS, FOMES IGNIARIUS IN THE INFECTION OF TREMBLING ASPEN.
P D Manion
Diss Abstr Sect B 28(12,PT.1):4836B-4837B
Jun 1968 Z5055.U49D53
Fungus diseases (plants), Heart rot (Populus), Populus tremuloides, Spore germination.

16633-68
ELECTRON MICROSCOPY OF UREDOSPORES OF MELAMPSORA LINI AND OF RUST INFECTED FLAX.
M S Manocha M Shaw
Can J Bot 45(9):1575-1582 REF
Sep 1967 470 C16C
Electron microscopy, Fungi, Melampsora lini, Plant diseases, Reproduction, Rust (flax), Seed germination.
Abstract Formation and development of uredospores, nucleoli not observed in nuclei of mature uredospores or germs.

16634-68
PHOTOSYNTHETIC ACTIVITIES OF COTTON PLANTS INFECTED WITH VERTICILLIUM ALBO-ATHUM.
D E Mathre
Phytopathology 58(2):137-141 REF
Feh 1968 464.8 P56
Carbon dioxide, Carhon isotopes, Cotton, Fungus diseases (plants), Oxygen, Photosynthesis, Verticillium alho-atrum.

16635-68
BERMUDA GRASS THATCH DECOMPOSITION IN RELATION TO SPRING DEAD SPOT. (ABSTRACT).
R E McCoy H C Young
Phytopathology 58(4):401
Apr 1968 464.8 P56
Cynodon dactylon, Fungus diseases (plants), Helminthosporium spiciferum, Spring dead spot.

16636-68
CHROMATOGRAPHIC PURIFICATION OF A SINGLE VIRAL PROTEIN IN SANDAL SPIKE.
B Menon-Nayer
Phytopathol Z 61(2):167-170
Feh 1968 464.8 P562
Chromatography, Electrophoresis, Proteins, Santalum album, Spike (santalum), Virus diseases (plants).
English and German summaries.
Abstract

16637-68
INVESTIGATION OF VIRUS DISEASES OF HOPS. (POL)
B Micinski
Poznan Inst Ochrony Roslin Biul 36:231-235 REF
1967 464.9 P87
Hops, Leaf curl (hops), Leaf roll (hops), Virus diseases (plants).
English and russian abstract
Abstract

16638-68
INVESTIGATIONS ON FUNGICIDAL ACTIVITY OF COMBINED FUNGICIDES. (POL)
J Miernik M Stec J Gorska-Poczopko
Poznan Inst Ochrony Roslin Biul 36:201-22D REF
1967 464.9 P87
Fungicides, Pesticide application, Pesticide mixtures, Potentiometry.
English and russian abstract
Abstract

16639-68
VERTICILLIUM WILT OF HEDYSARUM CORONARIUM (SULLA).
J M Milton I Isaac
Plant Pathol 16(2):73-75
Jun 1967 464.8 P692
Fungus diseases (plants), Sulla sweetvetch, Verticillium dahliae.
Abstract

16640-68
FALL DEATH RATES OF DRONE HONEY BEES.
R A Morse G E Strang J Nowakowski
J Econ Entomol 60(5):1198-1202
Oct 1967 421 J822
Apis mellifera, Mortality.

16641-68
HONEY BEE INSECTICIDE LOSS - AN DNDSDAL CASE.
R A Morse A F Gunnison
J Econ Entomol 6D(5):1196-1198
Oct 1967 421 J822
Apis mellifera, Carharyl, Insecticide residues.

16642-68
INTERACTIONS BETWEEN VERTICILLIDM ALBO-ATRUM AND PRATY-LENCHDS PENETRANS IN THE VERTICILLIDM WILT OF POTATOES. (ABSTRACT).
F Morsink A E Rich
Phytopathology 58(4):401
Apr 1968 464.8 P56
Fungus diseases (plants), Plant disease resistance, Plant nematode resistance, Plant nematodes, Potatoes, Pratylenchus, Pratylenchus penetrans, Verticillium alho-atrum, Wilt (potatoes).

16643-68
EFFECT OF TRACE-ELEMENTS BOUND TO SUPERPHOSPHATES ON THE RESISTANCE OF POTATO TUBERS TO PHYTOPHTHORA INFESTANS (MONT.) DE BARY.
A Mudich
Acta Phytopathol 2(4):295-302
1967 SB731.A3
Copper, Culture media, Fertilizers, Immunity, Magnesium, Micronutrients, Molyhdenum, Phytophthora infestans, Potatoes, Superphosphates, Zinc.

16644-68
SPROUT ROT OF BRUSSELS SPROOTS. (ABSTRACT).
J J Natti
Phytopathology 58(4):401
Apr 1968 464.8 P56
Alternaria tenuis, Brussels sprouts, Fungus diseases (plants), Fusarium, Rhizoctonia solani, Rot (brussels sprouts).

16645-68
SYMPTOM EXPRESSION AND VARIETAL SUSCEPTIBILITY IN CARNATION, DIANTHUS CARYOPHYLLOS, INOCULATED WITH THE CARNATION STRAIN OF ERWINIA CHRYSANTHEMI.
P E Nelson R S Dickey
Phytopathology 58(2):142-146
Feh 1968 464.8 P56
Dianthus caryophyllus, Erwinia chrysanthemi, Fungus diseases (plants), Plant disease resistance.

16646-68
TBE BELATIONSHIP OF MATING CAPACITIES AND POLYGALACTUBONASE PRODUCTION IN COCHLIOBOLUS CARBONUM. (ARSTRACT).
R R Nelson R T Sherwood
Phytopathology 58(4):402
Apr 1968 464.8 P56
Cochlioholus carhonum, Enzymes, Genetics, Pectinase, Reproduction.

16647-68
CHANGES IN RESPIRATION RATE OF TOBACCO LEAVES INFESTED WITH BACTERIA IN RELATION TO THE HYPERSENSITIVE REACTION.
J Nemeth Z Klement
Acta Phytopathol 2(4):303-308
1967 SB731.A3
Bacteria, Biochemistry, Hypersensitivity, Injections, Leaves, Plant respiration, Pseudomonas fluorescens, Pseudomonas syringae, Pseudomonas tahaci, Time, Tohacco.

16648-68
THE FIRST OCCURRENCE OF DISEASE OF THE CARNATION CAUSED BY PSEUDOMONAS CARYOPHYLLI (BURKHOLDER) STARR ET BURKHOLDER IN HUNGARY.
J Nemeth
Acta Phytopathol 3(1):45-50
1968 SB731.A3
Bacteria, Dianthus caryophyllus, Plant diseases, Pseudomonas caryophylli, Vascular system (plants).

16649-68
THE EFFECT OF CERTAIN FONGITOXICANTS ON THE FORMATION OF ENDOTROPHIC MYCORRHIZA BY ENDOGONE FASCICOLATA ON CORN AND ON ROOT DEVELOPMENT IN SEEDLING CORN.
O N Nesheim
Diss Ahstr Sect B 28(12,PT.1):4837B
Jun 1968 Z5055.049D53
Corn, Endogone fasciculata, Fumigants, Fungicides, Mycorrhiza, Plant physiology, Roots, Soil fumigation.

16650-68
HOST PLANTS FOR LABORATORY BEARING OF THE MELON APHID.
P A Norman R A Sutton
J Econ Entomol 60(5):1205-1207
Oct 1967 421 JB22
Aphis, Insect rearing.

16651-68
RELATIONSHIPS BETWEEN TETRANYCBUS URTICAE KOCH AND SOME PLANT VIRUSES.
G R Orloh
Virology 35(1):121-133 REF
May 1968 448.8 V81
Biological assay, Bnshy stunt (tomatoes), Feeding, Leaves, Mites, Mosaic (tohacco), Tetranychus urticae, Tissues, Virus diseases (plants), Virus x (potatoes), Yellow dwarf (onions).

16652-68
ORSERVATIONS ON THE NATORE OF INBEBITANCE OF BESISTANCE OF LUCERNE TO VERTICILLIUM ALBO-ATRUM.
C A Panton
Hereditas 57(3):333-338
1967 442.8 H42
Alfalfa, Fungus diseases (plants), Plant disease resistance, Plant genetics, Verticillium alho-atrum, Wilt (alfalfa).
Ahstract

16653-68
SURVIVAL OF ROOT-INFECTING FUNGI IN SOIL. VI. EFFECT OF AMENDMENTS ON BEAN ROOT ROT CAUSED BY THIELAVIOPSIS BASICOLA AND ON INOCULUM DENSITY OF THE CAUSAL ORGANISM.
G C Papavizas
Phytopathology 58(4):421-428 REF
Apr 1968 464.8 P56
Density, Fungus diseases (plants), Immunization, Mortality, Root rot (heans), Roots, Soil fungi, Thielaviopsis hasicola.

16654-68
STUDIES OF THE DEVELOPMENT OF POWDERY MILDEW (ERYSIPHE GRAMINIS F. SP. HORDEI MARCHAL) ON BARLEY. II. PRIMARY APPRESSORIA FORMATION.
C Paulech
Biologia (hratislava) 23(4):281-288 REF
1968 442.8 B5265
Barley, Erysiphe graminis hordei, Fungus diseases (plants), Plant disease resistance, Plant physiology, Powdery mildew.
English, russian and czech ahstract
Abstract: In this paper there are quoted results of a comparing study of the primary appressoria formation of the powdery mildew (Erysiphe graminis f. sp. hordei Marchal) in susceptihle and resistant host plants of harley. In the total dynamics of the primary appressoria formation on susceptihle and resistant plants there were found no significant differences.

16655-68
THE EFFECTS OF SUGAR MAPLE STEM TISSUE EXTRACTS ON SPORE GERMINATION OF FUSARIUM SOLANI. (ABSTRACT).
W H Pawuk
Phytopathology 58(4):402
Apr 1968 464.8 P56
Acer saccharum, Fungus diseases (plants), Fusarium solani, Plant disease control, Beproduction, Seed germination, Tissues.

16656-68
METHOD OF DETERMINING THE SENSITIVITY OF FUNGUS SPORES TO HOT WATER.
C F Pierson
Phytopathology 58(4):538-539
Apr 1968 464.8 P56
Asexual reproduction, Fungus diseases (plants), Hot water treatment (plants), Penicillium expansum, Plant disease control.

16657-68
FIELD EVALOATION OF INSECTICIDES FOR THE CONTROL OF APHIDS ON POTATOES.
D D Pond
J Econ Entomol 60(5):1203-1205
Oct 1967 421 JB22
Aphididae, Bayer 25141, Disulfoton, Phorate, Phosphamidon, Potatoes.

16658-68
WATERMELON MOSAIC VIRUS: TUBULAR INCLUSIONS IN PUMPKIN LEAVES AND AGGREGATES IN LEAF EXTRACTS.
D E Purcifull J R Edwardson
Virology 32(3):393-401 BEF
Jul 1967 448.8 V81
Leaves, Morphology, Mosaic (watermelons), Pumpkins, Virus diseases (plants), Watermelons.

16659-68
NUCLEAR CRYSTALS IN ZINNIA AND OTHER NONSOLANACEOUS PLANTS INFECTED WITH TOBACCO ETCH VIBOS.
D E Purifull J R Edwardson
Phytopathology 58(4):532-533
Apr 1968 464.8 P56
Cassia tora, Chenopodium amaranticolor, Etch (tohacco), Tohacco, Virus diseases (plants), Zinnia elegans.

16660-68
HYPERPARASITES ON SOME ASCOMYCETES FROM HYDEBABAD, INDIA.
P N Rao
Mycopathol Mycol Appl 33(2):161-166
13 Nov 1967 450 M994
Ascomycetes, Fungi, Hyperparasitism, Plant taxonomy.
Six fungi are recorded and descrihed. Helminthosporium dorycarpum, Tetrasporium asterinearum, and Diplodia sp. are hyperparasites on Meliola sp., Meliola aethiops

20 16661-68

cassiae, and Phyllachora sacchari spontanei, respectively.

16661-68
FUNGI ON BOUGAINVILLAEA SPECTABILIS WILLD.
K Rao
Mycopathol Mycol Appl 31(2):174-176
15 Mar 1967 450 M994
Ascomycetes, Bougainvillaea spectabilis, Deuteromycetes, Fungi.
Collected on dead stems.

16662-68
INHIBITION OF PORIA CARBONICA BY SCYTALIDIUM SP., AN IMPERFECT FUNGUS ISOLATED FROM DOUGLAS-FIR POLES.
J L Ricard W B Bollen
Can J Bot 46(5):643-647 REF
May 1968 470 C16C
Basidiomycetes, Fungi, Poria carbonica, Pseudotsuga menziesii, Wood decay.
French summary

16663-68
EFFECTS OF OZONE ON CONIDIOPHORES AND CONIDIA OF ALTERNARIA SOLANI.
S Rich h Tomlinson
Phytopathology 58(4):444-446
Apr 1968 464.8 P56
Alternaria solani, Fungus diseases (plants), Ozone, Reproduction.

16664-68
INTERACTION OF PATHOGENICITY GENES IN PUCCINIA GRAMINIS F. SP. TRITICI AND REACTION GENES IN TRITICUM AESTIVUM SSP. VULGARE "MARQUIS," "RELIANCE," AND "KOTA.".
M R Rondon
Diss Abstr Sect B 28(12,PT.1):4848B
Jun 1968 Z5055.U49D53
Crop varieties, Fungus diseases (plants), Genes, Plant disease resistance, Puccinia graminis tritici, Stem rust (wheat), Wheat.

16665-68
ELECTRON MICROSCOPY OF X-BODY FORMATION IN CELLS OF CABBAGE INFECTED WITH BRASSICA VIRUS 3.
M Rubio-Huertos C Matsui A Yamaguchi T Kamei
Phytopathology 58(4):548-549
Apr 1968 464.8 P56
Brassica oleracea, Cabbage, Cytoplasm, Electron microscopy, Plant cytology, Virus diseases (plants), Virus 3 (cabbage).

16666-68
POSSIBLE PARTICLES OF BEET WESTERN YELLOWS VIRUS IN THE INTESTINES OF VIRULIFEROUS APHIDS.
E G Ruppel
Phytopathology 58(2):256-257
Feb 1968 464.8 P56
Aphididae, Insect vectors, Myzus persicae, Sugar beets, Virus diseases (plants), Western yellows (sugar beets).

16667-68
A COMPARISON OF THE ELECTRON MICROSCOPE, MICROPRECIPITIN TESTS, AND INDICATOR PLANTS FOR THE DETECTION OF POTATO VIRUSES S, X, AND Y.
P J Sampson R H Taylor
Phytopathology 58(4):489-493 REF
Apr 1968 464.8 P56
Electron microscopes, Indicator plants, Plant disease forecasting, Precipitin test, Virus diseases (plants), Virus s (potatoes), Virus x (potatoes), Virus y (potatoes).

16668-68
EFFECTS OF HERBICIDES ON CARBON DIOXIDE UPTAKE BY PINE SEEDLINGS.
S Sasaki T T Kozlowski
Can J Bot 45(7):961-971 REF
Jul 1967 470 C16C
Carbon dioxide, Chemical control (plant diseases), Herbicides, Photosynthesis, Pinus resinosa, Plant respiration, Seedlings.
Abstract

16669-68
COMPARATIVE MORPHOLOGICAL AND PHYSILOGICAL STUDIES OF THE PROGENIES FROM INTRASPECIFIC MATINGS OF PHYTOPHTHORA CAPSICI.
M M Satour E E Butler
Phytopathology 58(2):183-192 REF
Feb 1968 464.8 P56
Culture media, Fungus diseases (plants), Peppers, Physiology, Phytophthora capsici, Reproduction, Seed germination, Tomatoes.

16670-68
CO2 ASSIMILATION AND YIELD OF LITTLE CLUB WHEAT INFECTED BY SEPTORIA NODORUM.
A L Scharen J M Taylor
Phytopathology 58(4):447-451 REF
Apr 1968 464.8 P56
Carbon dioxide, Fungus diseases (plants), Grain, Plant growth inhibitors, Plant metabolism, Plant respiration, Septoria nodorum, Wheat.

16671-68
IN VIVO AND IN VITRO DECLINE OF SPECIFIC INFECTIVITY OF TOBACCO RINGSPOT VIRUS CORRELATED WITH NUCLEIC ACID DEGRADATION.
I R Schneider T O Diener
Virology 35(1):150-157 REF
May 1968 448.8 V81
Bentonite, Centrifugation, Correlation, Culture media, Nucleic acids, Proteins, Research, Ring spot (tobacco), Virus diseases (plants).

16672-68
EFFECT OF DIURNAL TEMPERATURE CYCLES ON THE PRODUCTION OF AFLATOXIN.
H W Schroeder H Hein
Appl Microbiol 16(7):988-990
Jul 1968 448.3 AP5
Aflatoxin, Aspergillus parasiticus, Culture media, Diurnal rhythm, Temperature, Toxicology.

16673-68
RELATIONSHIP OF CLIPPING FREQUENCY TO ROOT AND CROWN DETERIORATION IN RED CLOVER.
W M Siddiqui P M Halisky S Lund
Phytopathology 58(4):486-488
Apr 1968 464.8 P56
Defoliation, Fungus diseases (plants), Fusarium, Plant disease resistance, Red clover, Root rot (red clover).
Abstract: The severity of root rot in Pennscott red clover increased when the frequency of clipping clover stands was increased.

16674-68
FACTORS AFFECTING ACUTE INJURY OF PINUS STROBUS BY OZONE. (ABSTRACT).
W A Sinclair A C Costonis
Phytopathology 58(4):403
Apr 1968 464.8 P56
Ozone, Pinus strobus, Plant injuries.

16675-68
SPREAD OF RED ROT IN THE LEAVES OF SUGARCANE PLANT.
G R Singh
Indian Phytopathol 20(3):220-225 REF
Sep 1967 464.8 IN2
Colletotrichum falcatum, Fungus diseases (plants), Red rot (sugarcane), Sugarcane.
Spores were carried from leaf sheath to leaf midrib through ligular region in detached leaves.

16676-68
MULTIPLICATION OF WHEAT STRIATE MOSAIC VIRUS IN ITS LEAFHOPPER VECTOR ENDRIA INIMICA.
R C Sinha L N Chiykowski
Virology 32(3):402-405 REF
Jul 1967 448.8 V81
Endria inimica, Insect vectors, Striate mosaic (wheat), Wheat.

16677-68
SEROLOGICAL DETECTION OF WHEAT STRIATE MOSAIC VIRUS IN EXTRACTS OF WHEAT PLANTS AND VECTOR LEAFHOPPERS.
R C Sinha
Phytopathology 58(4):452-455 REF
Apr 1968 464.8 P56
Antigens, Durum wheat, Endria inimica, Insect vectors, Mosaic (wheat), Serological tests, Virus diseases (plants).

16678-68
PATHOGENIC VARIABILITY WITHIN PHYTOPHTHORA PARASITICA AS RELATED TO FORMATION OF POST-INFECTIONAL ANTIFUNGAL SUBSTANCES IN PEPEROMIA.
B S Siradhana
Diss Abstr Sect B 28(12,PT.1):4838B
Jun 1968 Z5055.U49D53
Apples, Fungicides, Fungus diseases (plants), Ornamental plants, Peperomia, Phytophthora parasitica, Vegetables.

16679-68
TOBACCO DISEASES IN KENTUCKY IN 1967.
J H Smiley R A Flowers
Plant Dis Rep 52(8):589
Aug 1968 1.9 P69P
Fungus diseases (plants), Plant diseases, Surveys, Tobacco.

16680-68
ERADICATION OF POTATO VIRUS X AND S BY THERMOTHERAPY AND AXILLARY BUD CULTURE.
R Stace-Smith F C Mellor
Phytopathology 58(2):199-203 REF
Feb 1968 464.6 P56
Culture media, Heat, Potatoes, Soil temperature, Thermotherapy, Virus s (potatoes), Virus x (potatoes).
Abstract

16681-68
A VIRUS DISEASE OF RHUBARB IN BRITISH COLUMBIA.
R Stace-Smith G G Jacoli
Can J Bot 45(7):1059-1061
Jul 1967 47D C16C
Insect vectors, Mosaic (turnips), Myzus persicae, Rhubarb, Virus diseases (plants).
Abstract

16682-68
EVIDENCE FOR POLYSOMES IN EXTRACTS OF BEAN RUST UREDOSPORES.
R C Staples D Bedigian P R Williams
Phytopathology 58(2):151-154 REF
Feb 1968 464.8 P56
Beans, Density, Electron microscopy, Radioactivity, Ribosomes, Rust (beans), Uredinales, Uromyces phaseoli.

16683-68
RESISTANCE TO PUCCINIA GRAMINIS DERIVED FROM SECALE CEREALE INCORPORATED INTO TRITICUM AESTIVUM.
D M Stewart E C Gilmore E R Ansemus
Phytopathology 58(4):508-511
Apr 1968 464.8 P56
Fungus diseases (plants), Plant disease resistance, Plant genetics, Puccinia graminis, Rye, Triticum aestivum, Wheat.

16684-68
SEROLOGICAL INVESTIGATIONS OF RACES 1-8 OF PHYTOPHTHORA FRAGARIAE. (ABSTRACT).
C J Suerth E R Varney
Phytopathology 58(4):493
Apr 1968 464.8 P56
Genetics, Phytophthora fragariae, Serological tests.

16685-68
HUMUS ACIDS AS A NUTRITION SOURCE FOR SOME WHITE-ROT FUNGI.
M Tesarova L Schanel
Biol Plant 10(2):135-141 REF
1968 45D 852
Agar, Fungi, Humic acids, Plant nutrition.
English, russian and polish abstract
Abstract

16686-68
'SOIL VESSEL SYSTEM' OR ANALYSIS OF SOILS FROM DISEASED SEEDLINGS. (GE)
M Tesche
Phytopathol Z 61(2):197-199
Feb 1968 464.8 P562
Containers, Plant diseases, Seedlings, Soil microorganisms.

16687-68
RESISTANCE TO SPREAD OF VIRUS FROM CELL TO CELL IN T. I. 245 TOBACCO.
P E Thomas R W Fulton
Virology 35(1):108-111 REF
May 1968 448.8 V81
Cells, Injections, Light, Plant protection, Temperature, Tobacco, Virus diseases (plants).

16688-68
EFFECTS OF ULTRASONIC TREATMENT ON TURNIP MOSAIC VIRUS AND POTATO VIRUS X.
J A Tomlinson D G A Walkey
Virology 32(2):267-278 REF
Jun 1967 448.8 V81
Electron microscopy, Mosaic (turnips), Potatoes, Serological tests, Sound waves, Turnips, Virus diseases plants, Virus x (potatoes).

16689-68
LIGHT REQUIREMENT AND LIGHT INHIBITION OF SEXUAL REPRODUCTION IN FUSARIUM (HYPOMYCES) SOLANI F. SP. CUCURBITAE RACE 2.
T A Toussoun A R Weinhold
Can J Bot 45(6):951-954
Jun 1967 47D C16C
Culture media, Fungus diseases (plants), Fusarium solani, Light, Reproduction.

16690-68
CHEMICAL COMPOSITION AND BIOPHYSICAL PROPERTIES OF TOMATO RINGSPOT VIRUS.
J H Tremaine R Stace-Smith
Virology 35(1):102-107 REF
May 1968 448.8 V81
Amino acids, Biophysics, Chemical reactions, Diffusion, Electrophoresis, Molecular weight, Nucleic acids, Ribonucleic acid, Ring spot (tomatoes), Virus diseases (plants).

16691-68
THE RELATIVE EFFICIENCY OF EAR-TO-ROW AND CONVERGENT IMPROVEMENT IN INCREASING DISEASE RESISTANCE OF ZEA MAYS.
V Ulrich R S Snell
W Va Acad Sci Proc 39:235-242 REF
1967 500 W52
Corn, Plant disease resistance, Planting.
Abstact: Ear-to-row selection was ineffective in approving disease susceptible inbreds, but maintained good characteristics in disease resistance lines. Convergent improvement was effective in improving the resistance of susceptible lines when the nonrecurrent parent was a resistant or a susceptible line. Transgressive segregation played an important role with both resistant and susceptible nonrecurrent parents.

16692-68
STEM AND NEEDLE INNOCULATIONS OF EASTERN WHITE PINE WITH THE BLISTER RUST FUNGUS.
E P Van Arsdel
Phytopathology 58(4):512-514 REF
Apr 1968 464.8 P56
Blister rust (pinus), Cronartium ribicola, Fungus diseases (plants), Pinus strobus, Plant disease resistance, Spraying.

16693-68
INVESTIGATIONS OF CHERRY RASP LEAF DISEASE IN CALIFORNIA.
H K Wagnon J Traylor H E Williams A C Weiner
Plant Dis Rep 52(8):618-622 REF
Aug 1968 1.9 P69P
Cherries, Plant disease transmission, Plant nematodes, Prunus mahaleb, Rasp leaf (cherries), Soil fauna, Virus diseases (plants).

16694-68
OXYGEN CONSUMPTION AND GERMINATION OF CRONARTIUM FUSIFORME AECIOSPORES.
C H Walkinshaw
Phytopathology 58(2):260-261
Feb 1968 464.8 P56
Cells, Cronartium fusiforme, Fungus diseases (plants), Oxygen, Pinus echinata, Seed germination.

16695-68
TWO GENETIC SYSTEMS CONTROL DISEASE REACTION TO STRAINS A AND B OF MAIZE DWARF MOSAIC VIRUS. (ABSTRACT).
C C Wernham G L Scheifle
Phytopathology 58(4):504
Apr 1968 464.8 P56
Dwarf disease (corn), Mosaic (corn), Plant disease resistance, Plant genetics, Virus diseases (plants).

16696-68
PROLIFERATIVE SYMPTOMS IN LEAFHOPPERS INFECTED WITH WESTERN X-DISEASE VIRUS.
R F Whitcomb D D Jensen
Virology 35(1):174-177
May 1968 448.8 V81
Arthritis, Celery, Cicadellidae, Colladonus montanus, Feeding, Plant anatomy, Virus diseases (plants).

16697-68
AN UNDESCRIBED GALL MIDGE LEAF SPOT OF BALSAM POPLAR.
H S Whitney J A Baranyay
Phytopathology 58(2):262-263
Feb 1968 464.8 P56
Cecidomyiidae, Cytology, Fungus diseases (plants), Leaf spot (Populus), Populus balsamifera.

20 16698-68

16698-68
COMPARATIVE SUSCEPTIBILITY OF LARGE AND SMALL SPRUCE ROOTS TO POLYPORUS TOMENTOSUS.
R O Whitney
Can J Bot 45(11):2227-2229
Nov 1967 470 C16C
Fungus diseases (plants), Immunization, Picea glauca, Picea mariana, Plant disease resistance, Polyporus tomentosus, Roots.

16699-68
STOMATAL PENETRATION OF WHEAT SEEDLINGS BY STEM AND LEAF RUSTS IN RELATION TO EFFECTS OF CARBON DIOXIDE, LIGHT, AND STOMATAL APERTURE.
D Yirgou R M Caldwell
Phytopathology 58(4):500-507 REF
Apr 1968 464.8 P56
Carbon dioxide, Fungus diseases (plants), Leaf rust (wheat), Light, Plant disease resistance, Puccinia graminis tritici, Seedlings, Stem rust (wheat), Stomata, Wheat.

16700-68
A COMPARISON OF SPECIES OF APHIDIDAE WITH SPECIES OF THREE OTHER APHID FAMILIES REGARDING VIRUS TRANSMISSION AND PROBE BEHAVIOR.
F W Zettler
Phytopathology 57(4):398-400
Apr 1967 464.8 P56
Aphididae, Mosaic (beans), Plant disease transmission.

Arthropods

16701-68
NEW RESULTS ON THE CONTROL OF THE MILLET CATERPILLAR, LAPHYGMA FRUGIPERDA. (POR)
P R Almeida R D Cavalcante G de Sordi
Biologico 33(6):126-128
Jun 1967 442.8 B529
Chemical control (insects), Insect control, Insecticides, Laphygma frugiperda, Millet, Noctuidae.

16702-68
THE POSSIBILITIES OF DEVELOPMENT OF CHEMICAL METHODS FOR THE PLANT PEST CONTROL. (POL)
E Bakuniak M Gwiazda J Kroczynski
Poznan Inst Ochrony Roslin Biul 36:27-138 REF
1967 464.9 P87
Attractants, Chemical control (insects), Insecticide residues, Plant pest control.
English and russian abstract
Abstract

16703-68
FELTED GRASS COCCID ON RHODES GRASS IN QUEENSLAND.
A R Brimblecombe
Queensland Agr J 94(4):258-261
Apr 1968 23 Q33
Antonina graminis, Chloris gayana, Climate, Coccidae, Insect behavior, Insect control, Insect outbreaks, Insect pests, Plant hardiness, Soils, Zoogeography.

16704-68
THE IMPACT OF TULIPTREE SCALE FEEDING ON ITS HOST, YELLOW-POPLAR.
O P Burns
Diss Abstr Sect B 58(12,PT.1):5062B
Jun 1968 Z5055.U49D53
Carbon, Feeding, Insect behavior, Liriodendron tulipifera, Mortality, Toumeyella liriodendri.

16705-68
INSECT PESTS OF FARM, GARDEN, AND ORCHARD. S8951. 03.
R H Davidson L M Peairs
675 P. 8EF NEW YORK, JOHN WILEY
1966
Crops, Fruit, Gardens, Insect control, Insect pests, Plant pest control.

16706-68
INSECTICIDES APPLIED TO THE SOIL FOR CONTROL OF EIGHT SPECIES OF INSECTS ON IRISH POTATOES IN VIRGINIA.
R N Hofmaster R L Waterfield J C Boyd
J Econ Entomol 60(5):1311-1318
Oct 1967 421 J822
Aldrin, Chlordane, Epitrix, Phorate, Potatoes.

16707-68
STUDIES ON THE DEVELOPMENT OF INSECT RESISTANT SORGHUM VARIETIES AND BIOTYPES.
T Hornchong
Diss Abstr Sect B 58(12,PT.1):5064B-5065B
Jun 1968 Z5055.U49D53
Caterpillars, Crop varieties, Diatraea grandiosella, Heliothis zea, Insect nutrition, Insect physiology, Insect rearing, Plant breeding, Plant pest resistance, Sorghum, Spodoptera frugiperda.

16708-68
INTEGRATED PEST CONTROL IN ORCHARDS. (POL)
R Leski
Poznan Inst Ochrony Roslin Biul 36:269-290 REF
1967 464.9 P87
Chemical control (insects), Insect control, Insecticide application, Integrated control (insects).
English and russian abstract

16709-68
AN EVALUATION OF BIDRIN FOR CONTROL OF SCOLYTUS MULTISTRIATUS, THE PRIMARY VECTOR OF CERATOCYSTIS ULMI.
A C Lincoln
Diss Abstr Sect B 28(12,PT.1):4830B
Jun 1968 Z5055.U49D53
Ceratocystis ulmi, Chemical control (insects), Dieback (ulmus), Fungus diseases (plants), Hydroxy-N,N-dimethyl-cis-crotonamide dimethylphosphate, 3-, Insect vectors, Insecticides, Scolytus multistriatus, Ulmus americana.

16710-68
BIOPHYSICAL AND BIOCHEMICAL STUDIES ON THE NATURE OF RESISTANCE OF PINEAPPLES TO THE ORIENTAL FRUIT FLY.
E A Macion W C Mitchell J B Smith
J Econ Entomol 61(4):910-916
15 Aug 1968 421 J822
Biochemistry, Biophysics, Culture media, Dacus dorsalis, Hydrogen-ion concentration, Immunity, Insect cages, Insect eggs, Insect physiology, Ovulation, Pineapples, Research.

16711-68
POSSIBILITIES OF APPLYING CHEMOSTERILANTS IN PLANTS PROTECTION. (POL)
Z Przezdziecki J Bankowska
Poznan Inst Ochrony Roslin Biul 36:323-327 REF
1967 464.9 P87
Blood cells, Chemosterilants, Reproductive organs, Toxicology.
English and russian abstract
Abstract

16712-68
FIELD-CAGE RELEASES OF CHRYSOPA CARNEA FOR SUPPRESSION OF POPULATIONS OF THE BOLLWORM AND THE TOBACCO BUDWORM ON COTTON.
B L Bidgway S L Jones
J Econ Entomol 61(4):892-898 REF
15 Aug 1968 421 J822
Chrysopa carnea, Heliothis virescens, Heliothis zea, Insect cages, Insect control, Insect eggs, Larvae, Population.

16713-68
LEAF PUBESCENCE IN COMMON WHEAT, TRITICUM AESTIVUM L., AND RESISTANCE TO THE CEREAL LEAF BEETLE, OULEMA MELANOPUS (L.).
K Ringlund
Diss Abstr Sect B 28(12,PT.1):4847B-4848B
Jun 1968 Z5055.U49D53
Leaves, Oulema melanopus, Plant pest resistance, Wheat.

16714-68
DISEASES AND PESTS OF THE MORE IMPORTANT CROPS IN 1966 AND THE FORECAST FOR 1967. (POL)
A Studzinski F Kagan K Piekarczyk
Poznan Inst Ochrony Roslin Biul 36:257-268
1967 464.9 P87
Insect outbreak forecasting, Plant disease forecasting.
English and russian abstract
Abstract

16715-68
THE USE OF ORGANOCHLORINE INSECTICIDES AND POSSIBLE ALTERNATIVES AGAINST LEATHERJACKETS.
J H White

Plant Pathol 16(2):83-88
Jun 1967 464.8 P692
Aldrin, Barley, Benzene hexachloride,
Chemical control (insects), Chlorinated hydrocarbons, Ddt,
Food contamination, Insecticides, Lindane, Paris green,
Tipulidae, Wheat.
Abstract

16716-68
ACTION OF AQUEOUS IODINE ON OVA OF ASCARIS LUMBRICOIDES
AN ASCARIS SUUM.
Zaman N Visuvalingam
Roy Soc Trop Med Hyg Trans 61(3):443-444
1967 448.9 R813
Ascaris lumbricoides, Ascaris lumbricoides suum,
Centrifugation, Chemical control (insects), Dosage,
Insect eggs, Iodine, Larvae, Ova, Sterilization, Vegetables.

Nematodes

16717-68
CEREAL ROOT EELWORM PATHOTYPES IN ENGLAND AND WALES.
J Cotten
Plant Pathol 16(2):54-59 MAP
Jun 1967 464.8 P692
Barley, Crop varieties, Heterodera avenae, Oats,
Plant nematode resistance.

16718-68
THE HATCHING RESPONSE OF MELOIDOGYNE INCOGNITA EGGS AS
AFFECTED BY AMINO AND NONAMINO ACID FRACTIONS OF ROOT
EXUDATES.
R A Hamlen J R Bloom
Phytopathology 58(4):515-518 REF
Apr 1968 464.8 P56
Amino acids, Growth factors, Meloidogyne incognita,
Root excretions.
Abstract: The amino acid fractions yielded a significantly
greater hatch than the nonamino acid fractions but not
greater than that of the distilled water check.

16719-68
APHELENCHOIDES ECHINOCAUDATUS SP. N. (NEMATODA,
APHELENCHOIDIDAE). (RU)
M M Haque
Zool Zhur 47(2):287-289
Feb 1968 410 R92
Aphelenchoides echinocaudatus, Corn, Plant nematodes,
Taxonomy.
English abstract.

16720-68
ORGAN CULTURE OF MELOIDOGYNE INCOGNITA ACRITA. (ABSTRACT).
H Hirumi T Chen K Maramorosch
Phytopathology 58(4):400
Apr 1968 464.8 P56
Culture media, Gonads, Meloidogyne incognita acrita,
Nematodes, Tomatoes.

16721-68
EFFECT OF THE NEMATODE APHELENCHUS AVENAE ON SOME
ECTOTROPHIC, MYCORRHIZAL FUNGI AND ON A RED PINE
MYCORRHIZAL RELATIONSHIP.
J R Sutherland J A Fortin
Phytopathology 58(4):519-523 REF
Apr 1968 464.8 P56
Aphelenchus avenae, Culture media, Fungi, Mycorrhiza,
Parasites, Pinus resinosa.

16722-68
FIRST RECORD OF THE OCCURRENCE OF HETERODERA ROSTOCHIENSIS
IN PANAMA.
R Tarte
Plant Dis Rep 52(8):587-588 MAP
Aug 1968 1.9 P69P
Heterodera rostochiensis, Plant nematodes, Potatoes.

Weeds

16723-68
THE INFLUENCE OF TEMPERATURE ON LONGEVITY AND GERMINATION OF
SEED OF WESTERN DWARF MISTLETOE.
K M Reckman L F Roth
Phytopathology 58(2):147-150 REF
Feb 1968 464.8 P56
Arceuthobium campylopodum, Seed germination, Temperature.

16724-68
LOWER ALIPHATIC ESTERS OF N-PHENYL AND N-M-CHLOROPHENYL
CARBAMIC ACID CONTAINING AN ACYL GROUP. PATENT 3,393,224.
R F Brookes D H Godson E L Leafe
Us Patent Office Offic Gaz 852(3):730
16 Jul 1968 156.65 OF2
Carbamates, Esters, Herbicides, Patents.

16725-68
HERBICIDAL TROPOLONE ESTERS. PATENT 3,399,989.
L G Donaruma
Us Patent Office Offic Gaz 854(1):185
03 Sep 1968 156.65 OF2
Chemical control (weeds), Esters, Herbicides, Patents,
Tropolones.

16726-68
METHOD OF CONTROLLING WEEDS IN SOIL. PATENT 3,393,065.
R J Dowling A Soboleski
Us Patent Office Offic Gaz 852(3):700
16 Jul 1968 156.65 OF2
Chemical control (weeds), Herbicides, Patents,
Sodium N-1-naphthylphthalamate.

16727-68
3'4'-DICHLOROPIONANILIDE. PATENT 3,382,280.
C W Huffman
Us Patent Office Offic Gaz 850(1):264
07 May 1968 156.65 OF2
Dichloropropionanilide, 3',4'-, Herbicides, Patents.

16728-68
MONOFLUOROPHENYL-4'-NITROPHENYLETHER DERIVATIVES AS HERBI-
CIDES. PATENT 3,401,031.
T Inoue K Kato H Fujita Y Kiyohisa T Toyama T Yoshimoto
Us Patent Office Offic Gaz 854(2):468
10 Sep 1968 156.65 OF2
Chemical control (weeds), Ethers, Herbicides, Methodology,
Patents, Plant growth inhibitors.

16729-68
HERBICIDAL ETHER. PATENT 3,388,171.
D V Lopiekes
Us Patent Office Offic Gaz 851(2):546
11 Jun 1968 156.65 OF2
Chemical control (weeds), Ethers, Herbicides, Patents.

16730-68
HERBICIDAL METHOD. PATENT 3,403,994.
J F Olin
Us Patent Office Offic Gaz 855(1):172
01 Oct 1968 156.65 OF2
Acetanilide compounds, Halogen compounds, Herbicides,
Methodology, Patents.

16731-68
HERBICIDAL COMPOSITION AND METHOD COMPRISING 1-(TETRAHYDRO-
DICYCLOPENTADIENYL)-3,3-DIMETHYL UREA AND A SALT OF METHYL
ARSONIC ACID. PATENT 3,403,017.
J W Dawson
Us Patent Office Offic Gaz 854(4):1004
24 Sep 1968 156.65 OF2
Arsonic acid compounds, Chemical control (weeds), Cotton,
Herbicides, Methodology, Patents, Plant growth inhibitors,
Sodium chloride,
Tetrahydrodicyclopentadienyl)-3,3-dimethyl urea, 1-(.

16732-68
METHOD OF DESTROYING UNDESIRABLE PLANTS. PATENT 3,397,977.
S B Richter A A Levin
Us Patent Office Offic Gaz 853(3):722

20 16733-68

20 Aug 1968 156.65 OP2
Chemical control (weeds), Esters, Halogen compounds, Herbicides, Patents, Terephthalic acid compounds.

16733-68
HERBICIDAL COMPOSITION AND METHOD. PATENT 3,393,064.
S B Richter
Us Patent Office Offic Gaz 852(3):700
16 Jul 1968 156.65 OP2
Chemical control (weeds), Chlorinated hydrocarbons, Herbicides, Patents, Pesticide application, Seedlings, Seeds.

16734-68
ERRATUM: THE INTERACTION OF THE SEED COAT AND GIBBERELLIC ACID IN THE GERMINATION OF DATURA FEROX L.
R A Sanchez A Soriano S Slabnik
Can J Bot 45(7):1171
Jul 1967 470 C16C
Datura ferox, Gibberellic acid, Seed coats, Seed germination, Solanaceae.

16735-68
METHOD OF CONTROLLING THE GROWTH OF WEEDS. PATENT 3,399,988.
S Y C Soong B H Lake D R Baker
Us Patent Office Offic Gaz 854(1):184
03 Sep 1968 156.65 OP2
Chemical control (weeds), Herbicides, Methodology, Patents.

Other Pests

16736-68
RODENT DAMAGE TO FERTILIZED PACIFIC SILVER FIR IN WESTERN WASHINGTON.
S P Gessel G H Orians
Ecology 48(4):694-697 REF
1967 410 EC7
Abies amabilis, Fertilization (plants), Nitrogen compounds, Plant ecology, Plant pest resistance, Rodents.
Abstract

16737-68
THE LOSS OF YIELD IN A CROP OF SWEET CORN (ZEA MAYS L.) FOLLOWING THE COMPLETE DESTRUCTION OF SOME PLANTS AT AN EARLY STAGE BY BROWN RATS (RATTUS NORVEGICUS BERK.).
E Judenko
Pans (pest Articles News Sum) Sect A Insect Contr 13(4):412-414
Nov 1967 423.92 G798
Corn, Crop losses, Crop yields, Plant injuries, Plant pest control, Plant physiology, Rats, Rattus norvegicus.

16738-68
THE REPELLENT PROPERTIES OF CERTAIN PLANTS TO SMALL FIELD RODENTS. (POL)
A Romankowowa
Poznan Inst Ochrony Roslin Biul 36:93-100 REF
1967 464.9 P87
Food habits, Rodent control, Rodenticidal plants.
English and russian abstract
Abstract

30 LIVESTOCK PROTECTION

16739-68
ASSESSMENT OF THE USEFULNESS OF THE EXAMINATION OF A GRAM SMEAR OF FRESH DNCENTRIFUGED URINE IN THE DETERMINATION OF SIGNIFICANT BACTERIDRIA IN DOGS.
B E Goulden
New Zeal Vet J 16(1-2):1-2 REF
Jan 1968 41.8 N483
Animal physiology, Bacteria, Catheters, Centrifugation, Dogs, Urine.

16740-68
EXPERIENCES WITH A NEW BROAD-SPECTRUM ANTHELMINTIC DICHLORVOS, IN THE ADDLT PIG.
D E Jacobs
Vet Rec 83(7):160-164
17 Aug 1968 41.8 V641
Anthelmintics, Dichlorvos, Hyostrongylus rubidus, Oesophagostomum, Research, Swine, Toxicology.

16741-68
BIRD PREDATION ON BLACK FLY LARVAE AND PUPAE IN ONTARIO.
H G James
Can J Zool 46(1):106-107
Jan 1968 470 C16D
Balance of nature, Larvae, Predatory birds, Pupae, Simuliidae, Simulium vittatum.

16742-68
HEREDITARY CHANGE OF AN EYE COLOR MUTANT INDUCED BY DNA IN EPHESTIA.
S Nawa M A Yamada
Genetics 58(4):573-584 REF
Apr 1968 442.8 G28
Animal genetics, Cells, Color, Deoxyribonucleic acid, Ephestia, Eyes, Heredity, Mutation, Reproduction.

Diseases

16743-68
PDTDRE REQUIREMENTS FOR PREVENTION AND CONTROL OF BOVINE RESPIRATORY DISEASES IN THE UNITED STATES.
F R Abinanti
Amer Vet Med Ass J 152(6,PT.2):934-937
15 Mar 1968 41.8 AM3
Cattle, Infectious diseases, Respiratory diseases, Shipping fever.

16744-68
SYMPOSIUM ON IMMDNITY TO THE BOVINE RESPIRATORY DISEASE COMPLEX, JDNE 19-21, 1967, ATHENS, GEORGIA.
Amer Vet Med Ass J 152(6,PT.2):705-937, REF
15 Mar 1968 41.8 AM3
Cattle, Respiratory diseases, Symposia.
Dniversity of Georgia, School of Veterinary Medicine and Center for Continuing Education, cosponsors.

16745-68
TREATMENT OF SALT POISONING IN PIGS.
A C Anderson
Vet Rec 82(16):472
20 Apr 1968 41.8 V641
Animal nutrition, Baby pigs, Diet, Injections, Sodium chloride, Toxicology, Water.

16746-68
SELENIDM-RESPONSIVE DISEASES OF ANIMALS IN NEW ZEALAND.
E D Andrews W J Bartley A R Grant
New Zeal Vet J 16(1-2):3-17 REF MAP
Jan 1968 41.8 N483
Animal nutrition, Cats, Cattle, Deficiency diseases, Horses, Livestock, Metaholism diseases, Myopathy, Plant contamination,

Poultry, Selenium, Sheep, Swine, White muscle disease, Yellow fat.

16747-68
THE DISTRIBUTION OF CEBTAIN ESCHEBICHIA COLI STRAINS IN PIGS AND THEIB ENVIBONMENT.
J B B Arbuckle
Brit Vet J 124(4):152-159
Apr 196B 41.8 V643
Escherichia coli, Feces, Livestock diseases, Swine.

1674B-6B
EXPERIMENTAL INFECTION OF SHEEP AND GOATS WITH ATTENUATED AND VIBULENT STRAINS OF RINDERPEST VIBUS.
F A Ata K V Singh
Bull Epizoot Dis Afr 15(3):213-220
Sep 1967 41.B B872
Antibodies, Goats, Immnnization, Infectious diseases, Rinderpest virus, Sheep.
Abstract: Purpose of this stndy is to describe: response following infection, contact transmission, response following inoculation with cell cnlture attenuated strain of rinderpest virus,and incidence of infection among sheep in U.A.R. as determined by presence of serum neutralising antibodies.

16749-68
A SUSPECTED CASE OF MDSCDLAB DYSTBOPHY IN A HOBSE.
J R Baker
Vet Rec B2(6):170-171
10 Feb 1968 41.8 V641
Horses, Muscular dystrophy, Veterinary medicine.

16750-68
FATTY LIVER STDDIES IN LAYING BENS.
T L Barton
Diss Abstr Sect B 28(12,PT.1):4B19B
Jun 1968 Z5055.D49D53
Adipose tissne (animals), Animal nutrition, Chickens, Hormones, Liver diseases, Methionine, Poultry farm management, Proteins.

16751-68
ANTIGENIC VARIATIONS IN ISOLATES OF INFECTIODS BBONCHITIS VIRDS.
D M Berry K J Stokes
Vet Rec 82(6):157-160
10 Feb 1968 41.8 V641
Antigens, Immnnology, Infections bronchitis virns, Veterinary medicine, Virns diseases (animals).
Abstract: The antigenic variation between eight English and three foreign infections bronchitis isolates appears minor and of snbtype character.

16752-6B
BOVINE BHINOVIBUSES.
K Bogel
Amer Vet Med Ass J 152(6,PT.2):7B0-783 BEF
15 Mar 1968 41.B AM3
Bovine rhinovirus, Cattle, Immunization, Picornaviruses, Respiratory diseases, Bhinovirnses, Serological tests.

16753-68
PATHOLOGIC EFFECTS OF ESCBEBICHIA COLI 083:K:NM IN GNOTOBIOTIC PIGS.
A L Britt
Diss Abstr Sect B 28(12,PT.1):4827B
Jun 196B Z5055.049D53
Arthritis, Baby pigs, Bacillns, Electrophoresis, Escherichia coli, Germ-free life, Mortality, Polyserositis, Staphylococcus.

16754-68
COMMENTS ON COMPLICATIONS FOLLOWING VACCINATION OF CATTLE AGAINST BOVINE BESPIBATORY DISEASES.
L N Brown F K Bamsey
Amer Vet Med Ass J 152(6,PT.2):903-904
15 Mar 1968 41.B AM3
Cattle, Immnnization, Mncosal disease, Bespiratory diseases, Viral vaccines.

16755-68
EXCRETION OF FOOT-AND-MODTB DISEASE VIBUS PRIOB TO THE DEVELOPMENT OF LESIONS.
R Burrows
Vet Rec 82(13):3B7-388
30 Mar 196B 41.B V641
Blood, Cattle, Foot-and-mouth disease, Lesions, Milk, Pharynx, Rectum, Sheep, Swine, Vagina, Virns diseases (animals).

16756-68
COMMENTS ON POTENCY EVALUATION OF BOVINE RESPIRATORY DISEASE VACCINES.
V J Cabasso
Amer Vet Med Ass J 152(6,PT.2):845-846 BEF
15 Mar 1968 41.8 AM3
Cattle, Respiratory diseases, Viral vaccines.

16757-68
PRESENT STATUS OF IMMUNIZATION PROCEDURES FOR INFECTIOUS BOVINE RHINOTRACHEITIS.
N H Casselberry
Amer Vet Med Ass J 152(6, PT.2):B53-B57
15 Mar 1968 41.8 AM3
Cattle, Immunization, Rhinotracheitis.
Includes comments by A. L. Brown, T. L. Chow, and J. L. Bittle.

16758-68
OEDEMA DISEASE IN PIGS.
J Cerny
Tasmanian J Agr 40(2):138-139
May 1968 23 T182T
Animal diseases, Antibodies, Bacteria, Brain, Diarrhea, Edema, Epidemiology, Farm management, Intestines, Nerves, Stomach, Swine, Therapeutics, Toxins, Weaning.

16759-68
PRECIPITATING ANTIBODIES ASSOCIATED WITH MAREK'S DISEASE.
R C Chubb A E Churchill
Vet Rec 83(1):4-7
06 Jul 1968 41.8 V641
Antibodies, Antigens, Avian lymphomatosis, Cells, Chickens, Culture media, Kidneys, Virus diseases (animals).

16760-68
STUDIES OF INTERRELATIONSHIPS BETWEEN GENETICALLY RESISTANT CHICKEN EMBRYO CELLS AND THE BRYAN HIGH TITER STRAIN OF BODS SABCOMA VIBUS.
M Chung
Diss Abstr Sect B 5B(12,PT.1):5126B
Jun 1968 Z5055.U49D53
Animal genetics, Cells, Chick embryos, Rous sarcoma virus.

16761-68
RISK OF RESISTANCE TO CHLORAMPHENICOL.
D Clark
Vet Bec 82(14):421-422
06 Mar 1968 41.8 V641
Antibiotics, Bacteria, Chickens, Chloramphenicol, Drug therapy, Escherichia coli, Immunity.

16762-68
PASTEUBELLAE IN BOVINE RESPIRATOBY DISEASE.
J B Collier
Amer Vet Med Ass J 152(6,PT.2):824-828 REF
15 Mar 196B 41.8 AM3
Cattle, Immunization, Infectious bovine rhinotracheitis virus, Pasteurella haemolytica, Pasteurella multocida, Bespiratory diseases.

16763-68
COMMENTS ON CONTBOL AND MANAGEMENT OF RESPIRATORY DISEASES IN BEEF CATTLE.
G L Crenshaw
Amer Vet Med Ass J 152(6,PT.2):923-925
15 Mar 1968 41.B AM3
Beef cattle, Calves, Drug therapy, Feedlots, Infectious diseases, Respiratory diseases, Shipping fever, Stress, Vitamin a.

16764-6B
THE HAEMATOLOGY OF LYMPHOSARCOMA IN THE CAT.
G W Crighton
Vet Rec 82(6):155-157 REF
10 Feb 1968 41.8 V641
Cats, Diagnosis, Hematoxylin, Lymphosarcoma, Veterinary medicine.

16765-6B
BOVINE ADENOVIBUSES.
J H Darbyshire
Amer Vet Med Ass J 152(6,PT.2):786-792 BEF
15 Mar 1968 41.8 AM3
Adenoviruses, Animal histology, Cattle, Immunization, Lungs, Respiratory diseases, Serological tests.
Abstract

16766-6B
IMMUNOLOGIC RESPONSE OF RABBITS TO MYCOBACTERIUM BOVIS; CHEMICAL, ELECTROPHORETIC AND ANTIGENIC ANALYSES OF BACILLARY EXTRACTS.
G F Dardas
Diss Abstr Sect B 5B(12,PT.1):5127B
Jun 1968 Z5055.U49D53
Antibodies, Antigens, Chemicals, Electropboresis, Extracts, Mycobacterium bovis, Rabbits.

16767-68
ANTIGENIC, CHEMICAL, CHROMATOGRAPHIC, AND ELECTROPHOBETIC ANALYSES OF UNHEATED CULTURE FILTRATES OF MYCOBACTERIUM BOVIS.
T J Dardas
Diss Abstr Sect B 5B(12,PT.1):512BB
Jun 1968 Z5055.U49D53
Antibodies, Antigens, Chemicals, Chromatography, Culture media, Electrophoresis, Extracts, Mycobacterium bovis, Rabbits.

1676B-6B
STUDIES TO DETERMINE NEUTRALIZING ANTIBODY IN SERA FROM ANIMALS RECOVERED FROM AFRICAN SWINE FEVER AND LABORATORY ANIMALS INOCULATED WITH AFRICAN VIRUS WITH ADJUVANTS.
C J De Boer
Arch Gesamte Virusforsch 20(2):164-179 REF
Mar 1967 448.3 AR23
African swine fever virus, Rabbits, Serodiagnosis, Swine.
Abstract

16769-6B
CHARACTERISTICS OF A C STRAIN OF FOOT-AND-MOUTH DISEASE VIRUS PROPAGATED IN BHK21 CELLS.
H Diderholm Z Dinter
Arch Gesamte Virusforsch 20(2):246-250
Mar 1967 448.3 AR23
Foot-and-moutb disease virus, Physiology, Serodiagnosis, Tissue culture.

16770-68
PRESENT STATUS OF IMMUNIZATION PROCEDURES FOR PASTEURELLOSIS.
H Engelbrecbt
Amer Vet Med Ass J 152(6,PT.2):B81-884 REF
15 Mar 1968 41.8 AM3
Biological products, Cattle, Immunization, Pasteurella, Shipping fever.

16771-6B
NATURAL ANTIBODY IN MAMMALIAN SEBUM REACTING WITH AN ANTIGEN IN SOME LEPTOSPIBES.
S Faine J N Carter
J Bacteriol 95(2):280-265 REF
Feb 1968 448.3 JB2
Agglutination test, Antibodies, Blood serum, Guinea pigs, Leptospira, Mammals, Mice, Rabbits, Rats.
Abstract

16772-68
A NOTE ON EXPERIMENTAL RABIES IN THE DONKEY.
D H Ferris L Badiali M Abou-Youssef P D Beamer
Cornell Vet 58(2):270-277
Apr 1968 41.8 C81
Asses, Equine encephalomyelitis, Histopatbology, Horses, Immunization, Inclusion bodies, Livestock diseases, Rabies virus.

16773-68
SCRAPIC AGENT IN BLOOD.
E J Field E A Caspary G Joyce
Vet Rec 83(4):109
27 Jul 1968 41.8 V641
Blood serum, Histology, Injections, Laboratories, Mice, Nervous system, Research, Scrapie virus, Tissues.

16774-68
NAPHTHOQUINONE COMPOUNDS. PATENT 3,393,211.
M H Fisber C S Rooney
Us Patent Office Offic Gaz 852(3):72B
16 Jul 1968 156.65 OF2
Coccidiosis, Drug therapy, Naphtboquinone compounds, Patents, Poultry.

16775-68
COMMENTS ON CONTROL AND MANAGEMENT OF BESPIBATOBY DISEASES IN BEEF CATTLE.
D E Flack
Amer Vet Med Ass J 152(6,PT.2):925-92B
15 Mar 1968 41.8 AM3
Beef cattle, Costs, Feedlots, Immunization, Infectious diseases, Mortality, Respiratory diseases, Stress.
Includes discussion.

16776-68
EXOTIC PLANTS--A HAZARD TO ANIMALS.
M E Fowler
Southwest Vet 21(3):195-198(SPRING)
1968 41.8 S082
Autopsies, Cotyledon orbiculata, Diagnosis, Livestock, Poisoning, Poisonous plants, Sheep.

16777-68
COMMENTS ON MANAGMENT OF BESPIBATOBY DISEASES CF DAIBY CATTLE.
F B Fox
Amer Vet Med Ass J 152(6,PT.2):932-933
15 Mar 1968 41.B AM3
Calves, Dairy cattle, Mortality, Bespiratory diseases, Sbipping fever, Virus diseases (animals).

1677B-68
COMMENTS ON IMMUNIZATION PBOCEDURES FOR PASTEUBELLOSIS.
G H Frank
Amer Vet Med Ass J 152(6,PT.2):884-8B6 REF
15 Mar 1968 41.8 AM3
Biological products, Cattle, Immunization, Respiratory diseases, Sbipping fever.

16779-68
COMMENTS ON COMPLICATIONS FOLLOWING VACCINATION AGAINST BOVINE RESPIRATORY DISEASES.
D A Fuller
Amer Vet Med Ass J 152(6,PT.2):904-905
15 Mar 1968 41.8 AM3
Cattle, Immunization, Mucosal disease, Respiratory diseases, Stress, Virus diseases (animals).

16780-68
A SURVEY OF WILD ANIMALS AS POTENTIAL RESERVOIRS OF TBYPANOSOMIASIS IN THE ULANGA DISTRICT (TANZANIA).
R Geigy M Kauffmann R Beglinger
Acta Trop 24(2):97-108
1967 475 AC8
Animal vectors, Epidemiology, Glossina, Trypanosomiasis, Wildlife.
German and frencb abstract

167B1-68
MANAGEMENT OF BESPIRATOBY DISEASES IN DAIRY CATTLE.
W J Gibbons
Amer Vet Med Ass J 152(6,PT.2):929-931
15 Mar 1968 41.8 AM3
Dairy cattle, Drug therapy, Immunization, Respiratory diseases, Sbipping fever.

16782-68
DETECTION OF ANTIBODIES NEUTRALIZING THE VIRUS OF INFECTIOUS BOVINE RHINOTRACHEITIS IN THE SERUM OF FRENCH CATTLE. (FR)
Y Gilbert
Rev Med Vet (toulouse) (N.S.)119(1):31-36
Jan 1968 41.8 R32
Antibodies, Cattle, Cells, Culture media, Embryology, Kidneys, Neutralization, Rbinotracbeitis, Serum, Virus diseases (animals).
Englisb, German, and Spanisb summaries

16783-68
VIRAL INFERTILITY IN CATTLE.
B L Gledhill
Cornell Vet 58(3):466-479 REF
Jul 1968 41.8 C81
Cattle, Beproduction, Reproductive organs, Sterility, Virus diseases (animals).

167B4-68
BONE-METASTASIZING LUNG CABCINOMA IN A CAT.
P O Gustafsson D Wolfe
Cornell Vet 58(3):425-430
Jul 196B 41.8 C81
Animal diseases, Bones, Carcinoma, Cats, Lungs, Metastasis, Neoplasms.

16785-68
COMMENTS ON VACCINATION FOB BOVINE VIRAL DIABRHEA-MUCOSAL DISEASE.
D E Gutekunst
Amer Vet Med Ass J 152(6,PT.2):865-866
15 Mar 1968 41.8 AM3
Antibodies, Bovine virus diarrbea vaccines, Cattle,

Immunization, Mucosal disease, Respiratory diseases, Rhinotracheitis.

16786-68
ROLE OF MYCOPLASMA IN BOVINE RESPIRATORY INFECTION.
A H Hamdy
Amer Vet Med Ass J 152(6,PT.2):829-832 REF
15 Mar 1968 41.8 AM3
Calves, Cattle, Mycoplasma, Respiratory diseases.

16787-6B
COMMENTS ON BOVINE MYXOVIRUS PARAINFLUENZA-3.
A H Hamdy
Amer Vet Med Ass J 152(6,PT.2):777-779 BEF
15 Mar 196B 41.8 AM3
Cattle, Feedlots, Pasteurella, Respiratory diseases, Shipping fever.

167B8-68
SOME FACTORS AFFECTING MINERAL UTILIZATION BY THE BABY PIG.
D G Hendricks
Diss Abstr Sect B 2B(12,PT.1):4821B
Jun 196B Z5055.U49D53
Animal nutrition, Animal physiology, Baby pigs, Blood serum, Bones, Calcium, Magnesium, Minerals, Phosphorus, Proteins.

16789-6B
A NEW ANTI-COCCIDIAL DBUG (M AND B 15,497): ACTIVITY STUDIES AGAINST LABORATORY AND FIELD STRAINS OF EIMERIA.
J N Hodgson
Brit Vet J 124(5):209-21B REF
May 1968 41.8 V643
Animal diseases, Chickens, Coccidiosis, Dosage, Drug therapy, Ethyl 6-n-decyloxy-7-ethoxy-4-hydroxyquinoline-3-carboxylate, Immunity, Metamorphosis.
Summary in French, German, and Spanish.

16790-68
COMMENTS ON MANAGEMENT OF RESPIRATORY DISEASES IN DAIBY CATTLE.
C J Hollister
Amer Vet Med Ass J 152(6,PT.2):931-932
15 Mar 196B 41.8 AM3
Dairy cattle, Diagnosis, Immunization, Infectious diseases, Respiratory diseases.

16791-68
COMMENTS ON BOVINE VIRAL DIABBHEA-MUCOSAL DISEASE.
J C Holper
Amer Vet Med Ass J 152(6,PT.2):868-870
15 Mar 1968 41.B AM3
Antibodies, Bovine virus diarrhea vaccines, Cattle, Dosage, Immunization, Mucosal disease, Respiratory diseases, Rhinotracheitis.

16792-68
WILD ANIMAL LOSSES THBOUGH POISONS. (GER)
A Von Horn
Nachrichtenbl Deut Pflanzenschutzdienstes 19(2):17-21 REF
Feb 1967 442.9 BB32
Death, Food poisoning, Toxicology, Wildlife conservation, Wildlife diseases.

16793-68
COMMENTS ON COMBINATION VACCINES FOR BOVINE BESPIRATOBY DISEASES.
J A House J A Baker
Amer Vet Med Ass J 152(6,PT.2):B93-894
15 Mar 1968 41.8 AM3
Cattle, Colostrum, Gamma globulins, Immunization, Mortality, Respiratory diseases.

16794-6B
POLYNUCLEOTIDE HOMOLOGIES OF BBUCELLA DEOXYRIBONUCLEIC ACIDS.
B H Hoyer N B McCullough
J Bacteriol 95(2):444-448 REF
Feb 1968 448.3 J82
Biochemistry, Brucella, Deoxyribonucleic acid, Escherichia coli bacterin, Nucleotides.
Includes livestock disease organisms.
Abstract

16795-6B
ISOLATION OF A HEMAGGLUTINATING PICOBNAVIBUS FBOM A PRIMARY SWINE KIDNEY CELL CULTURE.
C Huygelen J Peetermans
Arch Gesamte Virusforsch 20(2):260-262 BEF
Mar 1967 44B.3 AR23
Hemagglutination, Picornaviruses, Serodiagnosis, Swine, Tissue culture.
Abstract

16796-68
COMMENTS ON BOVINE RESPIRATOBY INFECTIONS IN NORTHEASTERN DAIRY CATTLE.
R F Kahrs
Amer Vet Med Ass J 152(6,PT.2):737-738 REF
15 Mar 1968 41.8 AM3
Dairy cattle, Infectious bovine rhinotracheitis virus, Mucosal disease, Northeastern States, Respiratory diseases, Virus diarrhea.

16797-68
THE GROWTH CYCLE OF EQUINE HERPES 3 VIRUS AS COMPARED WITH OTHEB VIRUSES OF THE HERPES GROUP.
A Karpas
Arch Gesamte Virusforsch 22(3-4):316-323 REF
1967 448.3 AB23
Equine herpesviruses, Physiology, Tissue culture.

16798-68
ANTIBODY BESPONSE AND PROTECTION INDUCED BY IMMUNIZATION WITH SMOOTH AND ROUGH STRAINS IN EXPEBIMENTAL SALMONELLOSIS.
K Kenny M Herzberg
J Bacteriol 95(2):406-417 REF
Feb 196B 44B.3 JB2
Antibodies, Antigens, Immunization, Mice, Salmonella enteritidis, Salmonella typhimurium, Salmonellosis, Vaccines.
Abstract

16799-68
EXTEBMINATION OF CATTLE GRUBS (HYPODEBMA SPP.) ON A BEGIONAL BASIS.
M A Khan
Vet Rec B3(4):97
27 Jul 196B 41.8 V641
Animal diseases, Coumaphos, Hypoderma bovis, Hypoderma lineatum, Insecticides, Buelene, Spraying.

16800-68
COMMENTS ON COMBINATION VACCINES FOB BOVINE RESPIRATORY DISEASES.
B J Kirkpatrick
Amer Vet Med Ass J 152(6,PT.2):B96-897
15 Mar 1968 41.8 AM3
Bovine rhinotracheitis vaccines, Bovine virus diarrhea vaccines, Cattle, Immunization, Parainfluenza-3 vaccines, Respiratory diseases, Viral vaccines.

16B01-6B
PATHOLOGIC PHYSIOLOGY AND CBEMOTBEBAPY OF PLASMODIUM BERGHEI. III. BENAL FUNCTION IN RATS INFECTED WITH PLASMODIUM BEBGHEI.
T Kishimoto M Oskoui D M Aviado
Exp Parasitol 22(2):160-177 REF
Apr 1968 436.8 EX7
Biochemistry, Kidneys, Malaria, Physiology, Plasmodium, Rats, Sodium, Urine.
Abstract

16802-68
EFFECT OF RONNEL MINEBAL BLOCK (RID-EXY) ON CONTBOL OF CATTLE GBUBS AND WEIGHT GAIN OF BEEF CATTLE.
F W Knapp N W Bradley W C Templeton Jr
J Econ Entomol 60(5):1455-1456
Oct 1967 421 J822
Cattle, Hypoderma, Bonnel.

16803-6B
PATHOLOGICAL STUDIES ON ALEUTIAN DISEASE OF MINK. (JA)
M Kozasa K Ishida A Sato S Yamamoto
Jap Vet Med Ass J 21(1):33-3B, 43 BEF
1968 41.9 J275
Aleutian disease, Autopsies, Histology, Minks.
English abstract
Abstract

16804-68
COMMENTS ON BOVINE PABAINFLUENZA-3 IMMUNIZATION PROCEDURES.
C J Kucera
Amer Vet Med Ass J 152(6,PT.2):B77-878
15 Mar 1968 41.8 AM3
Bovine rhinotracheitis vaccines, Cattle, Immunization, Parainfluenza-3 vaccines, Parainfluenza-3 virus, Respiratory diseases.

30 16805-68

16805-68
THE MICROFLORA OF FODDERS ASSOCIATED WITH BOVINE RESPIRATORY DISEASE.
J Lacey
J Gen Microbiol 51(2):173-177 REF
Apr 1968 448.3 J823
Cattle, Epizootic diseases, Feed, Food contamination, Microorganisms, Molds, Respiratory diseases.
Abstract

16806-68
REOVIRUSES.
P H Lamont
Amer Vet Med Ass J 152(6,PT.2):807-813 REF
15 Mar 1968 41.8 AM3
Animal histology, Calves, Cattle, Diagnosis, Immunization, Lungs, Pasteurella, Pneumonia, Reoviruses, Respiratory diseases, Serological tests.
Abstract

16807-68
LICENSE REQUIREMENTS FOR VACCINES FOR BOVINE RESPIRATORY DISEASES.
B LaSalle
Amer Vet Med Ass J 152(6,PT.2):838-840
15 Mar 1968 41.8 AM3
Biological products, Cattle, Licenses, Respiratory diseases, Viral vaccines.
Abstract

16808-68
HOST-PARASITE RELATIONSHIPS BETWEEN PROTOZOANS AND THEIR ARTHROPOD AND VERTEBRATE HOSTS. (POL)
J J Lipa
Kosmos Ser A Biol 17(1):41-55 REF
1968 442.8 K84
Arthropoda, Parasitism, Protozoa, Vertebrates.

16809-68
M AND B 15,497: ACUTE, SUB-ACUTE AND CHRONIC TOLERANCE STUDIES IN CHICKENS.
J M S Lucas
Brit Vet J 124(5):219-226
May 1968 41.8 V643
Animal diseases, Chickens, Coccidiosis, Dosage, Drug therapy, Eggs,
Ethyl 6-n-decyloxy-7-ethoxy-4-hydroxyquinoline-3-carboxylate, Toxins.
Summary in French, German, and Spanish.

16810-68
ENTEROTOXAEMIA IN SHEEP IN NIGERIA.
I Macadam D Zwart
Bull Epizoot Dis Afr 15(3):243-244
Sep 1967 41.8 B872
Clostridium perfringens bacterin, Enterotoxemia, Sheep.

16811-68
CALF DIPHTHERIA.
D R Mackey
Amer Vet Med Ass J 152(6,PT.2):822-823
15 Mar 1968 41.8 AM3
Antibiotics, Calves, Dosage, Feedlots, Necrobacillosis, Respiratory diseases, Sphaerophorus necrophorus.

16812-68
COMMENTS ON CLINICAL SIGNS OF RESPIRATORY DISEASES IN FEEDLOT CATTLE.
D B Mackey
Amer Vet Med Ass J 152(6,PT.2):755-756
15 Mar 1968 41.8 AM3
Cattle, Diagnosis, Feedlots, Mucosal disease, Respiratory diseases, Shipping fever, Virus diarrhea.

16813-68
THE EFFECT OF ANAPLASMA MARGINALE INFECTION ON THE METABOLIC AND OSMOTIC BEHAVIOR OF BOVINE ERYTHROCYTES.
D K Mann
Diss Abstr Sect B 28(12,PT.1):4827B-4828B
Jun 1968 Z5055.U49D53
Anaplasma marginale, Cattle, Erythrocytes, Hematologic diseases, Metabolism, Osmosis.

16814-68
INFECTIOUS BRONCHITIS IN LAYING FOWLS; ITS EFFECT UPON EGG PRODUCTION AND SUBSEQUENT EGG QUALITY.
J S McDougall
Vet Rec 83(4):84-86
27 Jul 1968 41.8 V641
Birds, Eggs, Immunization, Infectious bronchitis, Respiratory system, Virus diseases (animals).

16815-68
IMMUNOLOGICAL RESPONSE OF THE PIG AS AFFECTED BY AMINO ACID NUTRITION.
J J McGillivray
Diss Abstr Sect B 28(12,PT.2):4828B
Jun 1968 Z5055.U49D53
Amino acids, Animal nutrition, Antigens, Baby pigs, Deficiency diseases, Immunology, Proteins, Salmonella pullorum.

16816-68
BOVINE RESPIRATORY INFECTIONS.
D G McKercher
Amer Vet Med Ass J 152(6,PT.2):729-737 REF
15 Mar 1968 41.8 AM3
Bacteria, Cattle, Epizootic diseases, Infectious bovine rhinotracheitis virus, Mucosal disease, Respiratory diseases, Shipping fever, Virus diarrhea, Virus diseases (animals).

16817-68
COMMENTS ON INFECTIOUS BOVINE RHINOTRACHEITIS.
D G McKercher
Amer Vet Med Ass J 152(6,PT.2):760-761 REF
15 Mar 1968 41.8 AM3
Abortion, Cattle, Respiratory diseases, Rhinotracheitis.

16818-68
FOOT-AND-MOUTH DISEASE IN SWINE: RESPONSE TO INACTIVATED VACCINES.
P D McKercher H E Farris
Arch Gesamte Virusforsch 22(3-4):451-461 REF
1967 448.3 AR23
Foot-and-mouth disease, Immunization, Swine, Vaccines.
Abstract: An enduring level of antibody was produced in swine for 90 days by the inoculation of a trivalent vaccine combined with oil adjuvant. The antigenicity of the virus type determined, to considerable degree, the antibody level attained. This relatively simple method of protecting swine from foot-and-mouth disease appears to have a practical application in future field studies.

16819-68
IMMUNE RESPONSE OF STEERS INOCULATED WITH CHEMICALLY-TREATED FOOT-AND-MOUTH DISEASE VIRUS PREPARATIONS PREVIOUSLY STUDIED IN SWINE.
P D McKercher A R Giordano
Arch Gesamte Virusforsch 20(2):190-197 REF
Mar 1967 448.3 AR23
Cattle, Foot-and-mouth disease virus, Immunity, Serodiagnosis.
Abstract

16820-68
MYCOPLASMA GALLISEPTICUM INFECTION AND BROILER WEIGHT.
D A McMartin J E Wilson
Vet Rec 82(13):392-393
30 Mar 1968 41.8 V641
Chickens, Escherichia coli, Infectious bronchitis virus, Infectious diseases, Livestock diseases, Mycoplasma gallisepticum, Virus diseases (animals), Weights.

16821-68
PRELIMINARY INVESTIGATION OF METHODS FOR EVALUATING INACTIVATED VACCINES FOR INFECTIOUS BRONCHITIS VIRUS.
D A McMartin
Brit Vet J 124(1):36-41 REF
Jan 1968 41.8 V643
Chickens, Eggs, Immunization, Infectious bronchitis virus, Mycoplasma gallisepticum, Viral vaccines, Virus diseases (animals).

16822-68
CYTOCHEMICAL STUDIES WITH AFRICAN HORSE SICKNESS VIRUS BY FLUORESCENT MICROSCOPY.
R Mirchamsy H Taslimi
Arch Gesamte Virusforsch 20(2):272-274
Mar 1967 448.3 AR23
African horse sickness virus, Cytology, Fluorescence microscopes, Fluorescent antibody technic, Nucleic acids.

16823-68
A STUDY OF IMMUNITY AGAINST PASTEURELLA MULTOCIDA IN BUFFALO CALVES AND THEIR CARRIER STATUS.
K Mohan M N Sinha R P Singh C M Gupta
Vet Rec 83(6):155-156
10 Aug 1968 41.8 V641
Agglutination test, Biochemistry, Buffaloes, Epidemiology,

Pasteurella multocida, Respiratory system, Serological tests.

16824-68
COMMENTS ON BOVINE RHINOVIRUSES.
S B Mohanty
Amer Vet Med Ass J 152(6,PT.2):784-785
15 Mar 1968 41.8 AM3
Antibodies, Bovine rhinovirus, Cattle, Immunization,
Respiratory diseases, Rhinoviruses.

16825-68
COMMENTS ON BOVINE ADENOVIRUSES.
S B Mohanty
Amer Vet Med Ass J 152(6,PT.2):792-794
15 Mar 1968 41.8 AM3
Adenoviruses, Cattle, Epidemiology, Human diseases,
Immunization, Respiratory diseases.

16826-68
A POSTMORTEM CASE OF INFECTIOUS FELINE ENTERITIS-LIKE
DISEASE IN A TIGER. (JA)
M Morita
Jap Vet Med Ass J 20(8):331-332
1967 41.9 J275
Animal diseases, Autopsies, Cats, Feline infectious enteritis.

16827-68
COLORADO TICK FEVER VIRUS: AN ELECTRON MICROSCOPIC STUDY.
F A Murphy P H Coleman A K Harrison G W Gary
Virology 35(1):28-40 BEF
May 1968 448.8 V81
Colorado tick fever virus, Cytoplasm, Electron microscopy,
Mice, Research.

16828-68
TANSY RAGWORT (SENECIO JACOBAEA), A POTENTIAL MENACE TO
LIVESTOCK.
O H Muth
Amer Vet Med Ass J 153(3):310-312 REF
01 Aug 1968 41.8 AM3
Diagnosis, Livestock, Poisonous plants, Senecio jacobaea.

16829-68
DIAGNOSIS OF BOVINE TUBERCULOSIS WITH TUBERCULIN REACTION.
(JA
H Nemoto
Jap Vet Med Ass J 20(8):350-354 REF
1967 41.9 J275
Animal diseases, Cattle, Diagnosis, Tuberculin test,
Tuberculosis.

16830-68
ATTEMPTS TO PRODUCE CROSS-REACTIONS FOR BRUCELLA IN CATTLE
TREATED WITH HEMORRHAGIC SEPTICEMIA BACTERINS.
P Nicoletti J Holmes
Cornell Vet 58(3):421-424 BEF
Jul 1968 41.8 C81
Agglutination, Bacterins, Blood serum, Brucella, Cattle,
Livestock diseases, Milk, Shipping fever.

16831-68
ROLE OF GENETIC FACTORS AND FOWL POX VIRUS IN
PARTHENOGENESIS IN TURKEY EGGS.
M W Olsen E G Buss
Genetics 56(4):727-732
Aug 1967 442.8 G28
Embryology, Fowlpox virus, Immunization, Parthenogenesis,
Turkey eggs, Virus diseases (animals).

16832-68
INVESTIGATION ON SEVERITY OF ACUTE SWINE ERYSIPELAS OF
SEPTICEMIC TYPE. (JA)
S Oyama
Jap Vet Med Ass J 20(8):345-349
1967 41.9 J275
Animal diseases, Septicemia, Swine, Swine erysipelas.

16833-68
MALABSORPTION IN JOHNE'S DISEASE OF CATTLE: DEPRESSED IN
VITRO AMINO-ACID UPTAKE BY ISOLATED INTESTINAL TISSUE
PREPARATIONS.
D S P Patterson S Berrett
Vet Rec 83(2):55-56
13 Jul 1968 41.8 V641
Absorption, Amino acids, Cattle, Culture media, Intestines,
Johne's disease, Livestock diseases, Tissues.

16834-68
COMMENTS ON BOVINE PARAINFLUENZA-3 IMMUNIZATION PROCEDURES.
G V Peacock
Amer Vet Med Ass J 152(6,PT.2):879-880
15 Mar 1968 41.8 AM3
Cattle, Immunization, Parainfluenza-3 vaccines,
Respiratory diseases.

16835-68
COMMENTS ON COMPLICATIONS THAT ARISE AFTER VACCINATION
AGAINST BOVINE RESPIRATORY DISEASES.
G V Peacock
Amer Vet Med Ass J 152(6,PT.2):905-910
15 Mar 1968 41.8 AM3
Cattle, Immunization, Mortality, Respiratory diseases,
Viral vaccines.
Includes discussion.

16836-68
COMMENTS ON COMBINATION VACCINES FOR BOVINE RESPIRATORY
DISEASES.
C E Phillips
Amer Vet Med Ass J 152(6,PT.2):739-740
15 Mar 1968 41.8 AM3
Bovine rhinotracheitis vaccines,
Bovine virus diarrhea vaccines, Dairy cattle, Immunization,
Parainfluenza-3 vaccines, Respiratory diseases.

16837-68
COMMENTS ON COMBINATION VACCINES FOR BOVINE RESPIRATORY
DISEASES.
C E Phillips
Amer Vet Med Ass J 152(6, PT.2):895
15 Mar 1968 41.8 AM3
Cattle, Respiratory diseases, Viral vaccines.

16838-68
POTENCY EVALUATION OF VACCINES USED AGAINST BOVINE
RESPIRATORY DISEASES.
C E Phillips
Amer Vet Med Ass J 152(6,PT.2):842-845
15 Mar 1968 41.8 AM3
Bovine rhinotracheitis vaccines,
Bovine virus diarrhea vaccines, Cattle, Dosage, Immunization,
Parainfluenza-3 vaccines, Respiratory diseases,
Viral vaccines.

16839-68
DIAGNOSIS OF VIBRIO FETUS INFECTION IN THE BULL. II. AN
EPIDEMIOLOGICAL SURVEY USING A FLUORESCENT ANTIBODY TEST
AND COMPARING THIS WITH A CULTURAL METHOD.
M Philpott
Vet Rec 82(16):458-463 BEF
20 Apr 1968 41.8 V641
Bulls, Culture media, Diagnosis, Epidemiology,
Fluorescent antibody technic, Livestock diseases,
Vibrio fetus bacterins.

16840-68
MALIGNANT CATARRHAL FEVER.
W Plowright
Amer Vet Med Ass J 152(6,PT.2):795-804 BEF
15 Mar 1968 41.8 AM3
Buffaloes, Cattle, Immunization, Infectious diseases,
Malignant catarrh, Sheep, Thyroid gland,
Virus diseases (animals), Wildlife.

16841-68
COMPLICATIONS FOLLOWING VACCINATION OF CATTLE AGAINST
INFECTIOUS BOVINE RHINOTRACHEITIS, BOVINE VIRAL
DIARRHEA-MUCOSAL DISEASE, AND PARAINFLUENZA TYPE 3.
S F Rosner
Amer Vet Med Ass J 152(6,PT92):898-902 REF
15 Mar 1968 41.8 AM3
Bovine rhinotracheitis vaccines,
Bovine virus diarrhea vaccines, Cattle, Immunization,
Mucosal disease, Parainfluenza-3 vaccines,
Respiratory diseases, Viral vaccines.

16842-68
TESTING THE EFFECTIVITY OF COCCIDIOSTATICS BY USING RADIO
IRON-59 FOR THE QUANTITATIVE ESTIMATION OF BLOOD IN THE
CAECA AND FECES OF CHICKENS.
H Schanzel
Folia Parasitol 15(00):107-113
1968 436.8 C33
Amprolium, Chickens, Coccidiosis, Eimeria tenella,
Erythrocytes, Feces, Hemorrhage, Iron isotopes, Nicarbazin,
Radioactive tracers.
Abstract

16843-68
COMMENTS ON THE ROLE OF NATURAL ANTIBODY IN IMMUNOLOGIC COMPETENCE.
D Segre
Amer Vet Med Ass J 152(6,PT.2):746-749 REF
15 Mar 1968 41.8 AM3
Antibodies, Baby pigs, Dosage, Immunization, Mice, Rabbits.

16844-68
STUDIES ON THE AETIOLOGY OF ANAEMIA IN CHRONIC FASCIOLIASIS IN SHEEP.
M M H Sewell J A Hammond D C Dinning
Brit Vet J 124(4):160-170 REF
Apr 1968 41.8 V643
Anemia, Bile ducts, Chromium, Erythrocytes, Fasciola hepatica, Liver, Livestock diseases, Sheep.

16845-68
STUDIES ON THE PATHOGENESIS OF INFECTIOUS BOVINE RHINOTRACHEITIS FOLLOWING AEROSOL EXPOSURE.
E L Shroyer B C Easterday
Cornell Vet 58(3):442-461 REF
Jul 1968 41.8 CB1
Aerosols, Cattle, Infectious bovine rhinotracheitis virus, Research, Respiration, Virus diseases (animals).

16846-68
SALMONELLOSIS TYPHIMURIUM. SOME EPIDEMIOLOGICAL AND THERAPEUTICAL PROBLEMS OF SALMONELLOSIS. (CZ)
S Sivak L Surovka A Docolomansky A Krisak
Cesk Epidemiol Mikrobiol Imunol 17(2):87-94 REF
Mar 1968 44B.8 C332
Chickens, Eggs, Epidemiology, Human diseases, Salmonella typhimurium, Salmonellosis, Therapeutics.
English, Russian and Czech abstracts.
Abstract: An epidemic, caused by Salmonella typhimurium was transmitted by scrambled hen's eggs. Short application of heat did not destroy the infective agent.

16847-68
ANTI-MICROBIAL DRUGS IN ANIMAL FEEDS.
H W Smith
Vet Rec 83(6):143
10 Aug 1968 41.8 V641
Animals, Bacteria, Clostridium welchii, Drugs, Escherichia coli, Feed, Salmonellosis, Staphylococcus aureus.

16848-68
EXPERIMENTAL OVINE LISTERIOSIS. III. INOCULATION OF RAMS.
R F Smith I M Reynolds G W Clark
Cornell Vet 58(3):480-486 REF
Jul 1968 41.8 CB1
Injections, Listeria monocytogenes, Listeriosis, Livestock diseases, Rams, Testes.

16849-68
COMMENTS ON MALIGNANT CATARRHAL FEVER.
J Storz
Amer Vet Med Ass J 152(6,PT.2):804-806 REF
15 Mar 1968 41.8 AM3
Cattle, Malignant catarrh, Spleen, Thyroid gland, Virus diseases (animals).

16850-68
COMMENTS ON IMMUNIZATION PROCEDURES FOR PASTEURELLOSIS.
M L Sutton
Amer Vet Med Ass J 152(6,PT.2):886-888
15 Mar 1968 41.8 AM3
Cattle, Immunization, Respiratory diseases, Shipping fever.

16851-68
COMMENTS ON BOVINE VIRAL DIARRHEA-MUCOSAL DISEASE.
R L Sweat
Amer Vet Med Ass J 152(6,PT.2):867-868 REF
15 Mar 1968 41.8 AM3
Antibodies, Bovine virus diarrhea vaccines, Cattle, Immunization, Mucosal disease, Respiratory diseases, Rhinotracheitis.

16852-68
LABORATORY EVALUATION OF BOVINE RESPIRATORY DISEASE VACCINES FOR SAFETY.
T W Tamoglia
Amer Vet Med Ass J 152(6,PT.2):847-850
15 Mar 1968 41.8 AM3
Bacteria, Bovine rhinotracheitis vaccines, Bovine virus diarrhea vaccines, Cattle, Fluorescent antibody technic, Immunization, Mice, Parainfluenza-3 vaccines, Respiratory diseases, Viral vaccines.
Includes discussion by D. L. Madden.

16853-68
ANTIGENIC RELATIONSHIP BETWEEN INFLUENZA A VIRUSES OF HUMAN AND ANIMAL ORIGIN.
B Tumova H G Pereira
World Health Organ Bull 38(3):415-420 REF
1968 449.9 W892B
Antigens, Human diseases, Influenza viruses, Research, Virus diseases (animals).
French summary

16854-68
A STUDY OF THE ULTRASTRUCTURE OF THE INTESTINAL EPITHELIAL CELLS OF PIGLETS INFECTED WITH A TRANSMISSIBLE GASTROENTERITIS VIRUS.
J E Wagner
Diss Abstr Sect B 28(12,PT.1):5093B
Jun 1968 Z5055.U49D53
Baby pigs, Cells, Cytology, Epithelium, Gastroenteritis, Infectious diseases, Intestines, Virus diseases (animals).

16855-68
PNEUMONIA OF SHEEP IN KENYA. I. BACTERIAL AND PARASITIC PNEUMONIA.
J G Wandera
Bull Epizoot Dis Afr 15(3):245-258 REF
Sep 1967 41.8 B872
Bacteriophages, Dictyocaulus filaria, Jaagziekte, Lymphoid hyperplasia, Muellerius capillaris, Pasteurella haemolytica, Pasteurella multocida, Pneumonia, Sheep.
Abstract: Parasitic pneumonia is aetiology. P.haemoltica and possibly virus and other factors appear to be involved at some stage of bacterial pneumonia.

16856-68
BACTERICIDAL ANTIBODY STUDIES IN MATERNAL SERUM, COLOSTRUM, AND NEWBORN SERUM OF THE PIG.
P M Webb L H Muschel
Can J Microbiol 14(5):545-550 REF
May 1968 448.8 C162
Antibodies, Baby pigs, Bacteria, Bactericides, Biological transport, Colostrum, Immunity, Immunization, Livestock diseases, Serum, Swine.

16857-68
ISOLATION OF LISTERIA MONOCYTOGENES FROM VEGETATION.
H J Welshimer
J Bacteriol 95(2):300-303 REF
Feb 1968 448.3 JB2
Animals, Epidemiology, Humans, Listeria monocytogenes, Listeriosis, Mice, Vegetation.
Abstract

16858-68
BASIC PRINCIPLES OF IMMUNITY IN CATTLE.
A J Winter
Amer Vet Med Ass J 152(6,PT.2):741-745 REF
15 Mar 1968 41.8 AM3
Antibodies, Antigens, Cattle, Gamma globulins, Immunization, Infectious diseases.

16859-68
A COMPARISON OF IMMUNOFLUORESCENCE AND CULTURAL TECHNIQUES FOR DEMONSTRATION OF VIBRIO FETUS.
A J Winter J D Samuelson M Elkana
Amer Vet Med Ass J 150(5):499-502 REF
01 Mar 1967 41.8 AM3
Cattle, Culture media, Diagnosis, Fluorescent antibody technic, Vibrio fetus.
Abstract: A comparison was made of immunofluorescence and cultural techniques for the detection of V. fetus in preputial scrapings from bulls. V. fetus was demonstrated in 12 samples only by immunofluorescence and in 8 only by cultural means. Both procedures are considered satisfactory for routine detection of carrier animals, although a non-carrier status cannot be established conclusively. The complementary nature of these procedures provided an indication for their combined use, when possible.

16860-68
THE NATURAL HISTORY OF BOVINE MYXOVIRUS PARAINFLUENZA-3.
G T Woods
Amer Vet Med Ass J 152(6,PT.2):771-777 REF
15 Mar 1968 41.8 AM3
Calves, Cattle, Diagnosis, Epizootic diseases, Immunization, Parainfluenza-3 virus, Pasteurella, Respiratory diseases, Shipping fever, Therapeutics.

16861-68
A SURVEY ON SUBCLINICAL INFECTION WITH BOVINE EPIZOOTIC FEVER. (JA)
M Yamamoto
Jap Vet Med Ass J 20(8):338-342 REF
1967 41.9 J275
Animal diseases, Cattle, Epizootic diseases, Fever.

16862-68
INFECTIOUS BOVINE RHINOTRACHEITIS.
C J York
Amer Vet Med Ass J 152(6,PT.2):758-760 REF
15 Mar 1968 41.8 AM3
Abortion, Antibodies, Cattle, Diagnosis, Immunization, Respiratory diseases, Rhinotracheitis, Serological tests.

16863-68
COMMENTS ON LICENSE REQUIREMENTS FOR VACCINES FOR BOVINE RESPIRATORY DISEASES.
C J York
Amer Vet Med Ass J 152(6,PT.2):840-841
15 Mar 1968 41.8 AM3
Antibodies, Cattle, Respiratory diseases, Viral vaccines.

16864-68
COMMENTS ON IMMUNITY IN CATTLE.
C J York
Amer Vet Med Ass J 152(6,PT.2):745-746
15 Mar 1968 41.8 AM3
Cattle, Immunization, Infectious diseases.

Arthropods

16865-68
A SYSTEMATIC INSECTICIDE FOR CONTROL OF THE FACE FLY, MUSCA AUTUMNALIS.
J F Brown
Diss Abstr Sect B 58(12,PT.1):50618
Jun 1968 Z5055.U49D53
Calves, Chemical control (insects), Famphur, Insecticides, Musca autumnalis.

16866-68
CONTROL OF LARVAE OF THE HOUSE FLY AND THE HORN FLY IN MANURE OF INSECTICIDE-FED CATTLE.
R O Drummond T M Whetstone S E Ernst
J Econ Entomol 60(5):1306-1308
Oct 1967 421 J822
Cattle, Haematobia, Musca domestica.

16867-68
THE TEMPERATURE-HUMIDITY-RELATIONSHIP IN THE ACTIVITY OF THE COMMON WOOD TICK. (GE)
V Dyk I Bouckova
Angew Parasitol 9(2):83-87
May 1968 436.8 AN4
Humidity, Insect behavior, Insect ecology, Ixodes ricinus.
English, german, russian and czech abstract
Abstract

16868-68
CONTROLLING SHORT-NOSED CATTLE LICE WITH DICHLORVOS RESIN STRIPS.
T L Harvey D G Ely
J Econ Entomol 61(4):1128-1129
15 Aug 1968 421 J822
Anoplura, Biochemistry, Cattle, Chemical control (insects), Dichlorvos, Experimental insects, Greenhouse culture, Haematopinus eurysternus, Insecticide application, Insecticides, Resins, Vapors.

16869-68
EXTERNAL PARASITES OF DOMESTIC PIGEON IN UNITED ARABIC REPUBLIC.
M K Selim A El-Kasaby A H El-Befaii
Angew Parasitol 9(2):74-83 REF
May 1968 436.8 AN4
Argas, Insect biology, Mallophaga, Mites, Parasitic insects, Pigeons.
English, german and russian abstract
Abstract

Parasites

16870-68
NOVEL THIAZINE AND THIAZOLINE ANTHELMINTIC AGENTS. PATENT 3,390,148.
W C Austin L H Conover J W Mcfarland O H Morgan
Us Patent Office Offic Gaz 851(4):1092
25 Jun 1968 156.65 OF2
Anthelmintics, Dihydro-4h-1,3-thiazine, 5,6-, Patents, Thiazines, Thiazolines.

16871-68
COATED 2,2-DICHLOROVINYL PHOSPHATE AND POLYVINYL CHLORIDE RESIN ANTHELMINTIC COMPOSITIONS. PATENT 3,398,225.
R H Bellin
Us Patent Office Offic Gaz 853(3):815
20 Aug 1968 156.65 OF2
Anthelmintics, Dichlorovinyl phosphate, 2,2-, Patents, Polyvinyl chloride, Resins.

16872-68
SPIROCERCA LUPI INFECTION IN TWO CENTRAL TEXAS DOGS.
K A Clark
Southwest Vet 21(3):211-212(SPRING)
1968 41.8 SO82
Animal diseases, Dogs, Nematodes, Sarcoma, Spirocerca lupi.

16873-68
STUDIES ON THE ABSORPTION AND METABOLISM OF D-(U-14C) GLUCOSE BY POLYMORPHUS MINUTUS (ACANTHOCEPHALA) IN VITRO.
D W T Crompton A P M Lockwood
J Exp Biol 48(2):411-425 REF
Apr 1968 442.8 B77
Absorption, Acanthocephala, Carbohydrates, Carbon isotopes, D-glucose, Ducks, Intestines, Metabolism, Polymorphus boschadis.

16874-68
ADVANCES IN PARASITOLOGY.
B Dawes
Advances Parasitol 5,319 P.
1967 436.8 A09
Animals, Parasitism.

16875-68
OLIGOSACCHARIDASES FROM MACRACANTHORHYNCHUS HIRUDINACEUS (ACANTHOCEPHALA) FROM SWINE.
T T Dunagan T M Yau
Compar Biochem Physiol 26(1):281-289 REF
Jul 1968 444.8 C73
Acanthocephala, Biochemistry, Enzymes, Macracanthorhynchus hirudinaceus, Oligosaccharides, Swine.
Abstract

16876-68
STUDIES ON THE SERUM PROTEINS IN EXPERIMENTAL FASCIOLIASIS OF SHEEP.
S Furmaga J L Gundlach
Acta Parasitol Polon 15(1-21):93-102 REF
30 Nov 1967 436.8 AC8
Animal diseases, Blood proteins, Fasciola, Fascioliasis, Liver diseases, Sheep, Trematoda.
English and polish abstract
Abstract

16877-68
STUDIES ON THE BIOLOGY AND IMMUNOLOGY OF ASCARIS SUUM IN MICE.
J P Lehnert
Diss Abstr Sect B 58(12,PT.1):5245B-5246B
Jun 1968 Z5055.U49D53
Antigens, Ascaris lumbricoides suum, Immunization, Lungs, Mice.

16878-68
A REVIEW OF SOME HELMINTHS OF LABORATORY ANIMALS.
P M Loew
Cornell Vet 58(3):408-421 REF
Jul 1968 41.8 C81
Animal cages, Animal diseases, Feces, Helminthology, Laboratories, Laboratory animals.

30 16879-68

16879-68
RECENT INFORMATION ON THE BIOLOGY OF ECHINOCOCCUS GRANULOSUS AND ECHINOCOCCOSIS. (GE)
K Matoff
Angew Parasitol 9(2):65-73 REF
May 1968 436.8 AN4
Cats, Dogs, Echinococcosis, Echinococcus granulosus, Epidemiolcgy, Fores.
English, german, and russian abstract
Abstract

16880-68
PNEUMONIA IN CATTLE DUE TO MIGRATING ASCARIS LUM8RICOIDES LARVAE.
D A Morrow
Amer Vet Med Ass J 153(2):184-189
15 Jul 1968 41.8 AM3
Animal diseases, Ascaris lumbricoides, Cattle, Epizootic diseases, Pneumonia, Therapeutics.
Abstract

16881-68
HELMINTHIASIS IN SHEEP.
J D P O'8rien
Vet Rec 81(26):697-698
23 Dec 1967 41.8 V641
Animal diseases, Helminthiasis, Nematodes, Sheep, Trichostrongylosis.

16882-68
EFFICACY OF TETRAMISOLE. STUDIES ON THE EFFICACY OF TETRAMISOLE IN THE TREATMENT OF P8E-TYPE II AND TYPE II 8OVINE OSTERTAGIASIS.
J F S Reid J Armour F W Jennings G M Urguhart
Vet Rec 83(1):14
U6 Jul 1968 41.8 V641
Cattle, Dosage, Drug therapy, Livestock diseases, Ostertagia ostertagi, Ostertagiasis, Parasitism, Tetramisole.

16883-68
ORAL TETRAMISOLE; EFFECT ON DICTYOCAULUS VIVIPA8US, OSTE8-TAGIA OSTERTAGI AND COOPERIA ONCOPHORA IN EXPE8IMENTALLY-INFECTED CALVES.
D B Ross
Vet Rec 83(3):69-71
20 Jul 1968 41.8 V641
Anthelmintics, Calves, Cooperia oncophora, Dictyocaulus viviparus, Ostertagia ostertagi, Parasitism, Tetramisole.

16884-68
EPIDEMIOLOGICAL STUDIES OF FASCIOLIASIS; A THIRD SEASON OF COMPARATIVE STUDIES WITH CATTLE.
J C Ross J R Todd
Vet Rec 82(24):695-699
15 Jun 1968 41.8 V641
Anthelmintics, Cattle, Epidemiology, Fascioliasis, Liver, Parasitism, Research, Sheep.

16885-68
THE EVAGINATION OF ECHINOCOCCUS GRANULOSUS SCOLICES FROM LUNG CYSTS OF BOVINE ORIGIN.
P H de Rycke E Pennoit-De Cooman
Z Parasitenk 30(2):171-175
1968 442.8 Z33F
Animal physiology, 8iochemistry, Echinococcus granulosus, Lungs.
English, german and french abstract
Abstract

16886-68
ANTHELMINTICS FOR DICTYOCAULUS FILA8IA IN SHEEP.
K D Sherman A A Shahlapour A H Eslami M Eliaziaw
Vet Rec 82(25):736-739 REF
22 Jun 1968 41.8 V641
Anthelmintics, Dictyocaulus filaria, Gastrointestinal system, Nematodes, Parasitism, Sheep.

16887-68
ON THE RELATIONSHIP BETWEEN THE ST8UCTURE AND THE GROWTH OF THE SCALES OF FASCIOLA HEPATICA.
J Slais
Folia Parasitol 15:189-192
1968 436.8 C33
Animal histology, Animal physiology, Deer, Fasciola hepatica.
Abstract

16888-68
STUDIES ON IMMUNITY OF CALVES TO DICTYOCAULUS VIVIPARUS REINFECTION. II. 8ELATIONSHIP BETWEEN THE AGE OF CALVES AND THE DOSE OF LARVAE CAUSING CLINICAL AND LETHAL COU8SE OF DICTYOCAULOSIS.
M Swietlikowski
Acta Parasitol Polon 15(1-21):151-156 REF
30 Nov 1967 436.8 AC8
Aging, Animal diseases, Cattle, Dictyocaulus viviparus, Immunity, Larvae, Nematodes.
English and polish abstract
Abstract

16889-68
STUDIES ON IMMUNITY OF CALVES TO DICTYOCAULUS VIVIPA8US REINFECTION. 1. IMMUNIZATION WITH SINGLE AND DOU8LE DOSES OF NORMAL OR IRRADIATED LARVAE.
M Swietlikowski
Acta Parasitol Polon 15(1-21):141-149 8EF
30 Nov 1967 436.8 AC8
Animal diseases, Cattle, Dictyocaulus viviparus, Immunity, Larvae, Nematodes.
English and polish abstract
Abstract

16890-68
ANTHELMINTIC EVALDATION OF TETRAMISOLE AGAINST THE SWINE LDNGWO8M, METASTRONGYLDS APRI.
H Ueno S Watanabe O Taniguchi
Tokyo Nat Inst Anim Health Quart 7(2):65-73(SUMME8) 8EF
1967 41.9 T575Q
Anthelmintics, Metastrongylus apri, Nematodes, Swine, Tetramisole.
Abstract

16891-68
A PHYSIOLOGICAL STUDY OF THE DEVELOPMENT OF THE EGG OF FASCIOLA HEPATICA L., T8E COMMON LIVER FLUKE.
R A Wilson
Compar 8iochem Physiol 21(2):307-320 REF
May 1967 444.8 C73
Biological assay, Eggs, Fasciola hepatica, Helminths, Morphology, Parasitology, Physiology, Respiration.

16892-68
LDMBAR PARALYSIS OF A CALF CADSED 8Y A8ERRATION OF AN IMMATDRE LIVER FLUKE INTO THE SPINAL CORD.
H Yamamoto T Aizawa H Matsumoto H Ueno
Tokyo Nat Inst Anim Health Quart 7(2):122-123(SUMME8) 1967 41.9 T575Q
Calves, Fasciola gigantica, Paralysis, Spinal cord, Trematoda.

16893-68
T8YPANOSOMA DAFILAE SP. N. AND LEUCOCYTOZOON ANATIS WICKWA8E, 1915 IN THE NO8THE8N PINTAIL (DAFILA ACUTA ACUTA L.).
D Zajicek
Folia Parasitol 15(00):169-172 8EF
1968 436.8 C33
Agglutination test, Ducks, Leucocytozoon anatis, Parasitism, Protozoa, Trypanosoma.
Parasites found in quarantined bird imported from Hungary; no illness was apparent.
Abstract

40 COMMODITY PROTECTION

Storage Diseases

16894-6B
EFFECT OF PH ON RECOVERY OF FUNGI FROM FOODS.
F E Mace J A Koburger
W Va Acad Sci Proc 39:102-106
1967 500 W52
Acids, Agar, Food, Fungi, Hydrogen-ion concentration, Nutrient solutions (plants), Plant physiology.
Abstract: Cooke Rose Bengal Agar (pH 6.0) was found superior to Potato Dextrose Agar (pH 3.5) for the isolation and enumeration of fungi from foods. There appears to be a population of injured cells in foods which can not initiate growth on media of pH 5.0 or lower.

16895-68
FUNGUS FLORA, GERMINABILITY AND FAT ACIDITY VALUES OF STORED CORN.
D B Sauer
Diss Abstr Sect B 28(12,PT.1):4837B
Jun 1968 Z5055.U49D53
Aspergillus, Corn, Corn oil, Humidity, Hydrogen-ion concentration, Molds, Seed germination, Storage diseases, Stored products, Temperature.

16896-68
LABORATORY EVALUATION OF MALATHION AS A PROTECTANT FOR ALMONDS DURING STORAGE.
G H Spitler P L Hartsell
J Econ Entomol 60(5):1456-1458
Oct 1967 421 J822
Almonds, Malathion, Storage diseases.

Arthropods

16897-68
BIONOMICS OF GLYCYPHAGUS DOMESTICUS (DE GEER) (ACARINA: GLYCYPHAGIDAE), A PEST OF STORED GRAIN.
P S Barker
Can J Zool 46(1):89-92
Jan 1968 470 C16D
Glycyphagidae, Glycyphagus domesticus, Grain, Humidity, Insect pests, Reproduction, Stored products, Temperature.

16898-6B
LABORATOPY TESTS OF FIVE NEW INSECTICIDES AS PROTECTANTS FOR STORED ROUGH RICE.
R R Coghurn
J Econ Entomol 60(5):1286-1289
Oct 1967 421 J822
Bromodan, Ciodrin, Rice, Shell SD 7438.

Rodents and Other Pests

16899-68
POPULATION ECOLOGY OF FERAL HOUSE MICE.
K T DeLong
Ecology 48(4):611-634 REF
1967 410 EC7
Animal diseases, Animal ecology, Demography, Food supply, Mice, Population statistics.
Abstract

16900-68
MIGRATION OF TOXOCARA CATI LARVAE IN MICE.
J P Dubey
Trop Geogr Med 20(2):172-176
Jun 1968 44B.B D65
Animal morphology, Culture media, Eggs, Larvae, Mice, Tissues, Toxocara cati, Toxoplasmosis, Zoogeography.
Summary in French

50 ENVIRONMENTAL CONTAMINATION

16901-68
THE ADSORPTION OF CHLORINATED HYDROCARBON PESTICIDES ON AN UNCONSOLIDATED AQUIFER SUBSTRATE.
F R Boucher
Diss Abstr Sect B 58(12,PT.1):5102B
Jun 1968 25D55.U49D53
Adsorption, Aquifers, Chlorinated hydrocarbons, Dieldrin, Hydrogen-ion concentration, Lindane, Organic compounds, Particle size determination, Pesticides, Soil contamination, Soil leaching, Solutes, Temperature, Water pollution.

55 RESIDUES

169D2-6B
DRIFT OF WATER-DILUTED AND UNDILUTED FORMULATIONS OF MALATHION AND AZINPHOSMETHYL APPLIED BY AIRPLANE.
R J Argauer H C Mason C Corley A H Higgins J N Sauls
J Econ Entomol 61(4):1D15-1D2D REF
15 Aug 1968 421 J822
Aerial spraying, Air flow, Azinphosmethyl, Biochemistry, Biological assay, Insecticide residues, Insecticides, Malathion, Water, Wind.

169D3-68
TOXICOLOGICAL CRITERIA APPLIED FOR ESTABLISHMENT OF THE TOLERANCES OF PESTICIDE RESIDUES. (POL)
A Bojanowska
Poznan Inst Ochrony Roslin Biul 36:149-162
1967 464.9 P87
Pesticide residues, Quantitative analysis, Toxicology.
English and russian abstract
Abstract

16904-68
RESIDUES OF ALDRIN, ENDRIN, AND HEPTACHLOR IN PEANUTS GROWN IN TREATED SOIL.
L W Morgan D B Leuck E W Beck D W Woodham
J Econ Entomol 60(5):1289-1291
Oct 1967 421 J822
Aldrin, Endrin, Heptachlor, Insecticide residues, Peanuts.

169D5-6B
A SPRAYER WITH SEMI-AUTOMATIC GRADUAL DILUTION.
W Vogel E Homberger P Leemann R Dr Ag Maag
Nachrichtenbl Deut Pflanzenschutzdienstes 19(10):153-156
Oct 1967 442.9 B832
Chemicals, Laboratories, Research, Spraying equipment.
English summary

16906-68
THE RESIDUES OF DISYSTON IN POTATO TUBERS. (POL)
Z Zwolinska-Sniatalowa
Poznan Inst Ochrony Roslin Biul 36:139-148 REF
1967 464.9 P87
Colorimetry, Disulfoton, Insecticide residues, Potatoes.
English and russian abstract
Abstract

60 TOXICOLOGY

16907-68
CORTICOSTEROID OVERDOSAGE IN DOGS.
D C Anderson
New Zeal Vet J 16(1-2):18-19 REF
Jan 1968 41.8 N483
Animal metabolism, Corticotropin, Dogs, Dosage,
Glucocorticoids, Glyconeogenesis, Glycoproteins,
Hypercortisonism, Hyperglycemia, Metabolism diseases,
Polydypsia, Polyuria, Toxicology.

16908-68
THE ESTIMATION OF EPINEPHRINE, NOREPINEPRRINE, AND ALDRIN
(A CHLORINATED NAPHTHALENE DERIVATIVE) IN MAMMALIAN TISSUE
EMPLOYING BIOLOGICAL AND CHEMICAL METHODS OF ASSAY, AND SOME
CONSIDERATIONS OF TOXICOLOGICAL EFFECTS OF ALDRIN.
H S Ener
Diss Abstr Sect B 58(12,PT.1):5138B-5139B
Jun 1968 Z5055.U49D53
Aldrin, Biological assay, Chemical analysis,
Chlorinated bydrocarbons, Epinephrine, Norepinepbrine,
Rabbits, Rats, Tissues, Toxicology.

16909-68
CLOSTRIDIUM BOTULINUM TYPE F IN THE SOIL OF ARGENTINA.
D F Gimenez A S Ciccarelli
Appl Microbiol 16(5):732-734 REF
May 1968 448.3 AP5
Assay, Biochemistry, Clostridium botulinum, Culture media,
Soils, Toxicology.

16910-6B
THE TOXICITY OF OKLAHOMA SPIDER (ARANEAE) VENOMS USING A
NEW VENOM RECOVERY AND TESTING TECHNIQUE.
R H Grotbans
Diss Abstr Sect B 5B(12,PT.1):5063B-5 64B
Jun 1968 Z5055.U49D53
Biological assay, Periplaneta americana, Public bealth,
Spiders, Toxicology, Venoms.

16911-6B
CARCINOGENS IN BURNING MOSQUITO COIL SMOKE.
D C McWilliam I L B Henderson
Australian J Sci 3D(11):465-466
May 1968 475 AU72
Carcinogens, Chemistry, Cbromatography, Culicidae,
Insect repellents, Insecticidal aerosols, Pyrethrum, Smoke,
Tobacco.

16912-68
ACUTE TOXICITY OF N-ALPHA-OLEFIN SULFUNATES.
K Oba J Tamura
Agr Biol Cbem 31(12):1509-1510
Dec 1967 385 AG8B
Biocbemistry, Detergents, Immunization, Mice, Olefins,
Sulfonic acids, Surface-active agents, Toxicity,
Water pollution.

16913-68
PESTICIDAL N-ACYL-N-LOWER ALKYL CARBAMATES OF PHENOLS AND
NAPHTHOLS WITH DECREASED MANNALIAN TOXICITY. PATENT
3,404,2DB.
W A H Robertson P G Clincb J Fraser
Us Patent Office Offic Gaz 855(1):2D7
01 Oct 196B 156.65 OP2
Carbamates, Mammals, Napbtbols, Patents, Pesticides, Pbenols,
Toxicology.

16914-6B
INVESTIGATION OF REPORTED AFLATOXIN PRODUCTION BY FUNGI
OUTSIDE THE ASPERGILLUS FLAVUS GROUP.
B J Wilson T C Campbell A W Hayes R T Hanlin
Appl Microbiol 16(6):819-821 REF
Jun 1968 448.3 AP5
Aflatoxin, Aspergillus flavus, Aspergillus parasiticns, Fungi,
Researcb.

16915-68
THALLIUM POISONING IN CATS.
B C Zook J Holzwortb G W Thornton
Amer Vet Med Ass J 153(3):285-299 REF
01 Aug 1968 41.8 AM3
Cats, Diagnosis, Poisoning, Thallium, Toxicology.
Abstract

65 PLANT PHYSIOLOGY AND BIOCHEMISTRY

16916-6B
THE EFFECT OF 2,4-DICHLOROPHENOXYACETIC ACID UPON THE METABOLISM AND COMPOSITION OF SOYBEAN HYPOCOTYL MITOCHONDRIA.
R Baxter
Diss Abstr Sect B 5B(12,PT.1):4887B
Jun 1968 Z5D55.U49D53
Amino acids, D, 2,4-, Electrophoresis, Mitochondria, Phospholipids, Phosphorylation, Plant composition, Plant metabolism, Plant respiration, Proteins, Ribonucleic acid, Soybeans.

16917-68
THE EFFECT OF CHLORAMPHENICOL ON SOYBEAN CALLUS TISSUE.
D F Blaydes
W Va Acad Sci Proc 39:89
1967 500 W52
Callus (plants), Cell division, Chloramphenicol, Mitosis, Plant growth inhibitors, Plant hormones, Plant metabolism, Ribonucleic acid, Soybeans.

16918-68
IN VITRO CULTURE OF A DWARF MISTLETOE, ARCEUTHOBIUM PUSILLUM.
J M Bonga C Chakraborty
Can J Bot 46(2):161-164 REF
Feb 1968 47 C16C
Arceuthobium pusillum, Culture media, Plant physiology, Seed germination.

16919-6B
THE INFLUENCE OF SIMAZINE ON THE QUALITY AND COMPOSITION OF POME FRUIT.
D B Carlson
Diss Abstr Sect B 28(12,PT.1):4831B
Jun 1968 Z5055.U49D53
Apples, Herbicides, Nitrogen, Pears, Plant biochemistry, Simazine.

16920-6B
VALUE OF A PLANT GROWTH RETABDANT FOR ISOLATING SOIL FUNGI.
E A Curl
Can J Microbiol 14(2):182 -183
Feb 1968 448.8 C162
Alkaloids, Dyes, Mucoraceae, Phosfon, Plant growth inhibitors, Plant regulators, Potassium gibberellate, Rose bengal, Soil fungi, Trichoderma.
Abstract: Most of the chemicals did not compare favorably with rose bengal, but phosfon used at 500 micrograms/ml significantly increased numbers of fungal colonies per plate and surpassed fast growing fungi.

16921-68
ENZYMATIC AND MORPHOLOGIC MODIFICATIONS IN BRUCELLA TREATED WITH INTERFERON. (FR)
V F Dima A Petrovici J Szabados T Vasilesco A Pop K Eudesco
Can J Microbiol 13(6):721-725 REF
Jun 1967 448.8 C162
Brucella, Enzymes, Interferon, Microbiology, Morphology, Proteins.

16922-68
EFFECT OF SUBSTRATE TEMPERATURE ON EMERGENCE AND GROWTH OF SEEDLING COTTON FOLLOWING IN-FURROW APPLICATIONS OF TEMIK (10 % G FORMULATION OF UNION CARBIDE UC-21149).
J Hacskaylo
J Econ Entomol 61(4):1108-1110
15 Aug 1968 421 J822
Biochemistry, Cotton, Dosage, Insect pests, Insecticide application, Insecticides, Plant physiology, Planting, Seedlings, Temik, Temperature, Upland cotton.

16923-68
THE DISSOCIATION OF BACILLUS THURINGIENSIS.
C L Hannay
Can J Microbiol 13(11):1566-1568
Nov 1967 448.8 C162
Bacillus thuringiensis, Biochemistry, Culture media, Fungi, Plant physiology, Vitamins.

16924-6B
PURIFICATION AND PROPERTIES OF FRUCTOSE DIPHOSPHATE ALDOLASE FROM FUSARIUM OXYSPORUM F. LYCOPERSICI.
J M Ingram R M Hochster
Can J Biochem 45(6):929-936
Jun 1967 470 C16E
Aldolase, Enzymes, Fructose, Fungus diseases (plants), Fusarium oxysporum lycopersici, Metabolism, Sterilization, Tomatoes, Toxins.

16925-68
OZONE DAMAGE AND SEMIMATURE-TISSUE NEEDLE BLIGHT OF EASTERN WHITE PINE.
S N Linzon
Can J Bot 45(11):2047-2061 REF
Nov 1967 470 C16C
Needle blight (pinus), Ozone, Pine needles, Pinus strobus, Plant diseases, Plant injuries, Tissues.

16926-68
THE EFFECT OF DIFFERENTIAL NITROGEN AND CALCIUM NUTRITION AND B-NINE (N-DIMETHYL AMINO SUCCINAMIC ACID) APPLICATION ON FOLIAR ANALYSIS AND FLOWERING QUALITY OF "RED WING" AZALEAS.
T C McDowell
Diss Abstr Sect B 28(12,PT.1):4832B
Jun 1968 Z5055.U49D53
Calcium, Nitrogen, Plant biochemistry, Plant nutrition, Rhododendron, Succinic acid, 2,2-dimethylhydrazide.

16927-68
THE PARTITIONING AND DISTRIBUTION OF SIMAZINE AND PROPANIL IN SPINACH CHLOROPLASTS.
T J Monaco
Diss Abstr Sect B 28(12,PT.1):4832B
Jun 1968 Z5055.U49D53
Carbon isotopes, Chloroplasts, Herbicides, Hill reaction, Hydrogen-ion concentration, Methylamine, Plant biochemistry, Propanil, Radioactive tracers, Simazine, Spinach.

16928-68
BIOCHEMICAL ACTION OF THIRAM AND SOME DIALKYDITHIOCARBAMATES.
B G Owens A D Hayes
J Sci Food Agr 15(11):II-24D-2
Oct 1964 382 S012
Benzoyl peroxide, Dithiocarbamates, Ferbam, Thiram.

16929-6B
GERANIUM PLANTS DIFFERENTIATED IN VITRO FROM STEM TIP AND CALLUS CULTURES.
S K Pillai A C Hildebrandt
Plant Dis Rep 52(8):600-601
Aug 1968 1.9 P69P
Callus (plants), Pelargonium hortorum, Plant cuttings, Plant disease transmission, Plant propagation.
Successful production of disease-free plants.

16930-68
METHOD OF CONTROLLING FUNGI WITH SULFONIUM IODIDES. PATENT 3,402,248.
K W Ratts
Us Patent Office Offic Gaz 854(3):780
17 Sep 1968 156.65 OP2
Acetanilide compounds, Chemical control (plant diseases), Fungicides, Fungus diseases (plants), Iodides, Methodology, Patents.

16931-68
STRUCTURE AND DEVELOPMENT OF THE FLOWER OF BRASENIA SCHREBERI GMEL.
F C Richardson
Diss Abstr Sect B 5B(12,PT.1):
Jun 1968 Z5055.U49D53
Aquatic weeds, Brasenia schreberi, Plant anatomy, Plant physiology.

16932-6B
TOLERANCE OF SOME IMPORTED CONIFER SEEDS TO FUMIGATION WITH CARBON TETRACHLORIDE.
H Both
J Econ Entomol 61(4):988-990 REF
15 Aug 1968 421 JB22
Biochemistry, Carbon tetrachloride, Cupressus, Fumigation, Larix, Picea, Pinus, Plant hardiness, Plant injuries, Seed germination, Seedlings, Thuja.

16933-68
EFFECT OF DEFOLIATION TREATMENTS AT VARIOUS STAGES OF PLANT DEVELOPMENT AND ROW SPACINGS ON CORN (ZEA MAYS L.) PRODUCTION.
W J Russell
Diss Abstr Sect B 28(12,PT.1):4848B-4849B
Jun 1968 Z5055.U49D53
Corn, Crop yields, Defoliation, Lodging (corn), Plant physiology, Planting, Smut (corn), Ustilago maydis.

16934-68
THE RELATIVE EFFECT OF N,N-DIMETHYL-2,2-DIPHENYLACETAMIDE ON ROOT AND SHOOT GROWTH.
E G Scott
W Va Acad Sci Proc 39:208-215
1967 500 W52
Dimethyl-2,2-diphenylacetamide, n,n-, Herbicides, Plant regulators, Seedlings, Tomatoes, Wheat.
Abstract: The roots showed considerably greater sensitivity to the chemical than did the shoots and wheat appeared to be 10 times as sensitive as tomatoes. Roots grown in sterile excised culture showed a similar response to the roots of intact seedlings.

16935-68
INDUCING SPORULATION IN DIFFERENT STRAINS OF ALTERNARIA SOLANI. I. EFFECT OF VISIBLE LIGHT.
B M Singh
Mycopathol Mycol Appl 31(2):144-150 REF
15 Mar 1967 450 M994
Alternaria solani, Fluorescent lamps, Light, Plant physiology, Plant propagation.
Abstract: Most effective color of visible spectrum in inducing sporulation is green.

16936-68
SOMATIC ABERRATIONS IN SOLANUM TUBEROSUM INDUCED BY ETHYL METHANE SULFONATE AND X-IRRADIATION.
M Umaerus
Hereditas 57(3):447-448
1967 442.8 H42
Ethyl methanesulfonate, Irradiation, Plant abnormalities, Plant biochemistry, Plant genetics, Plant physiology, Potatoes, X-rays.

16937-68
MODE OF ACTION OF 2,6-DICHLORO-4-NITROANILINE (DCNA) IN RHIZOPUS ARRHIZUS.
D J Weber J M Ogawa
J Sci Food Agr 15(11):II-240-3
Nov 1964 382 S012
Dichloro-4-nitroaniline, 2,6-, Glucose, Nucleic acids, Plant metabolism, Rhizopus.

16938-68
TRANSLOCATION TO AND ACCUMULATION OF PHOSPHORUS-32 IN SCLEROTIA OF SCLEROTIUM ROLFSII.
R D Wilcoxson S Subharayudu
Can J Bot 46(1):85-88
Jan 1968 470 C16C
Biological transport, Culture media, Isotopes, Phosphorus, Plant physiology, Sclerotia, Sclerotium rolfsii.
Abstract: Translocation from old to young portions of cultures, and when cultures were about 400ft-c of light rather than darkness.

16939-68
METABOLISM OF GLUCOSE-14C, PYRUVATE-14C, AND MANNITOL-14C BY MELAMPSORA LINI. I. UPTAKE.
P G Williams M Shaw
Can J Bot 46(4):435-440 REF
Apr 1968 470 C16C
Flax, Glucose, Mannitol, Melampsora lini, Plant metabolism, Plant physiology, Pyruvic acid.

16940-68
METABOLIC AND ENVIRONMENTAL FACTORS AFFECTING ABSORPTION AND TRANSLOCATION OF 2,4,5-TRICHLOROPHENOXYACETIC ACID IN WINGED ELM.
G D Wills
Diss Abstr Sect B 58(12,PT.1):4896B
Jun 1968 Z5055.U49D53
Absorption (biological), Carbon isotopes, Chromatography, Environment, Herbicides, Iron, Phosphorus, Plant biochemistry, Plant metabolism, Plant respiration, Plant translocation, Radioactive tracers, Rainfall, Soil moisture, T, 2,4,5-, Temperature, Ulmus alata.

16941-68
THE OXIDATION OF INDOLE-3-ACETALDEHYDE AND ITS 1-METHYL DERIVATIVE BY HORSERADISH PEROXIDASE.
R H Yeh
Diss Abstr Sect B 58(12,PT.1):4912B
Jun 1968 Z5055.U49D53
Armoracia lapathifolia, Biochemistry, Chromatography, Enzymes, Hydrogen-ion concentration, Indole-3-acetaldehyde, Indoleacetic acid, Methylindole-3-acetaldehyde, 1-, Peroxidases, Plant regulators.

70 CHEMISTRY

16942-68
METHOD FOR THE PREPARATION OF O,O-DIMETHYL-S-(1,2-DICARBETHOXYETHYL)DITHIOPHOSPHATE. PATENT 3,4D3,201.
V Adrian T Romulus M Traian
Us Patent Office Offic Gaz 854(4):1D36
24 Sep 1968 156.65 OF2
Chemical reactions, Chemistry, Esters, Malathion, Methodology, Patents, Phosphorus compounds.

16943-68
THE LITERATURE OF PESTICIDE CHEMISTRY.
W R Benson H A Jones
Ass Offic Anal Chem J 50(1):22-28
Feb 1967 381 AS7
Chemistry, Pesticides, Reference materials.

16944-68
THE EXAMINATION OF MIXTURES OF CAPTAN AND PHALTAN BY GAS CHROMATOGRAPHY.
A Bevenue J N Ogata
J Chromatography 36(10):529-531
10 Sep 1968 475 J824
Captan, Chromatography, Folpet, Fungicides, Pesticide mixtures, Plant diseases.

16945-68
FUNGICIDAL AND BACTERICIDAL COMPOSITIONS AND METHODS EMPLOYING ISOTHIAZOLECARBOXYLATES. PATENT 3,403,209.
J W Bushong G P Volpp
Us Patent Office Offic Gaz 854(4):1037
24 Sep 1968 156.65 OF2
Bactericides, Fungicides, Isothiazolecarboxylates, Methodology, Patents.

16946-68
A GROWTH MEDIUM FOR MYCOPLASMAS AND ITS MODIFICATION FOR LONGER SURVIVAL OF M. MYCOIDES IN CULTURE.
S H Buttery
Bull Epizoot Dis Afr 15(3):227-23D
Sep 1967 41.8 B872
Culture media, Mycoplasma, Panmede, Papain.
Abstract: Instead of B.U.O.F.S. it was thought worthwhile to investigate whether a medium could be devised which would permit the viability of strain V5 grown in it to be prolonged. The two media described are more easily prepared than B.U.F.O.S., and based on Panmede (a papain digest of ox liver).

16947-68
PROCESS FOR PREPARING BENZIMIDAZOLE N-OXIDES. PATENT 3,398,157.
J M Chemerda G Gal M Sletzinger
Us Patent Office Offic Gaz 853(3):804
20 Aug 1968 156.65 OF2
Anthelmintics, Benzimidazoles, Nitrogen, Oxides, Oxygen, Patents, Processing, Sulfur.

16948-68
2,6-SUBSTITUTED CYCLOHEXANONES AS INSECTICIDES, MITICIDES, FUNGICIDES, NEMATOCIDES AND HERBICIDES. PATENT 3,389,986.
E P Di Bella
Us Patent Office Offic Gaz 851(4):1063
25 Jun 1968 156.65 OF2
Acaricides, Cyclohexanones, Fungicides, Herbicides, Insecticides, Nematocides, Patents.

16949-68
BIPYRIDYLIUM COMPOUNDS AND HERBICIDAL COMPOSITIONS CONTAINING THE SAME. PATENT 3,398,154.
J E Downes
Us Patent Office Offic Gaz 853(3):803
20 Aug 1968 156.65 OF2
Amino compounds, Bipyridylium, 4,4'-, Herbicides, Nitrogen, Patents.

16950-68
A RAPID PROCEDURE FOR THE IDENTIFICATION OF ORGANOCHLORINE PESTICIDES IN BLOOD AND TISSUES.
C E Eliakis A S Coutselinis C E Eliakis
Analyst 93(1107):368-370
Jun 1968 382 AN1
Blood, Chlorinated hydrocarbons, Chromatography, Hexane, Insecticides, Pesticide analysis, Silver nitrate, Spraying, Tissues, Ultraviolet rays.

16951-68
METHOD FOR PREPARATION OF WETTABLE SULFUR. PATENT 3,398,227.
R L Every R L Grimsley
Us Patent Office Offic Gaz 853(3):815
20 Aug 1968 156.65 OF2
Alcohol, Methodology, Patents, Phosphorus compounds, Sulfur, Water.

16952-68
BROMODICHLOROACETANILIDES. PATENT 3,4D5,176.
B S Farah E E Gilbert
Us Patent Office Offic Gaz 855(2):485
D8 Oct 1968 156.65 OF2
Acetanilide compounds, Fungicides, Halogen compounds, Nematocides, Patents.

16953-68
INSECTICIDAL TERTIARY ALCOHOLS. PATENT 3,4D2,209.
E E Gilbert P Lombardo E J Rumanowski B Sukornick
Us Patent Office Offic Gaz 854(3):773
17 Sep 1968 156.65 OF2
Alcohols, Insecticides, Melting points, Patents.

16954-68
3-AMINO-2,5,6-TRICHLOROBENZOIC ACID. PATENT 3,391,185.
M T Goebel
Us Patent Office Offic Gaz 852(1):189
02 Jul 1968 156.65 OF2
Amino-2,5,6-trichlorobenzoic acid, 3-, Patents.

16955-68
M-ALKYLPHENYL N-CHLOROACETYL-N-METHYLCARBAMATES AND THEIR USE AS PESTICIDES. PATENT 3,4D2,246.
A H Haubein
Us Patent Office Offic Gaz 854(3):780
17 Sep 1968 156.65 OF2
Chemistry, Insecticides, Isopropylphenyl N-chloroacetyl-N-methylcarbamate, m-, Patents, Pesticides, Phenylcarbamates.

16956-68
NEMATOCIDAL 2,4-DIHALOPHENYL ESTERS OF ETHANESULFONIC ACID ETHERS AND ALCOHOLS. PATENT 3,401,222.
G R Haynes
Us Patent Office Offic Gaz 854(2):503
1D Sep 1968 156.65 OF2
Alcohols, Esters, Ethanesulfonic acids, Ethers, Nematocides, Patents.

16957-68
DIMETHYLTHIOCARBAMOYL S-ALKYLDITHIOCARBONATES. PATENT 3,398,181.
K S Karsten W F Russell
Us Patent Office Offic Gaz 853(3):808
20 Aug 1968 156.65 OF2
Carbonates, Dimetbylthiocarbamoyl S-alkyldithiocarbonates, Fungi, Insects, Patents, Pesticides.

16958-68
TRIAZINE DERIVATIVES WITH HERBICIDAL AND FUNGICIDAL PROPERTIES. PATENT 3,403,151.
E Knusli J Rumpf
Us Patent Office Offic Gaz 854(4):1028
24 Sep 1968 156.65 OF2
Fungicides, Halogen compounds, Herbicides, Patents, Triazines.

16959-68
N,N'-SULFONYL-BIS-(CARBAMOYLPHOSPHONIC ACID ESTERS). PATENT 3,401,214.
J J Kobler
Us Patent Office Offic Gaz 854(2):502
1D Sep 1968 156.65 OF2
Esters, Fungicides, Herbicides, Nematocides, Patents, Sulfonyl-bis-(carbamoylphosphonic acid), N,N-.

1696D-68
NON-IRRITANT QUATERNARY AMMONIUM COMPOUND COMPOSITION. PATENT 3,402,242.
D H E Laumann A F Lorman
Us Patent Office Offic Gaz 854(3):779
17 Sep 1968 156.65 OF2
Bactericides, Borax, Methodology, Microorganisms, Patents, Quaternary ammonium compounds.

16961-68
FREEZE-RESISTANT PESTICIDAL COMPOSITION. PATENT 3,399,991.
C A Littler
Us Patent Office Offic Gaz 854(1):185
03 Sep 1968 156.65 OF2
Glycols, Melting points, Patents, Pesticides, Water.

16962-68
METAL SALTS OF PHOSPHORUS ACIDS AND PROCESS. PATENT 3,401,185.
N A Meinhardt
Us Patent Office Offic Gaz 854(2):497
10 Sep 1968 156.65 OF2
Insecticides, Methodology, Organophosphorus compounds, Patents, Pesticides.

16963-68
CHEMISTRY OF THE FUNGICIDAL ACTION OF TETRAMETHYLTHIURAM DISULPHIDE (THIRAM) AND FERBAM.
R G Owens J H Rubinstein
J Sci Food Agr 15(11):II-240-1
Nov 1964 382 SO12
Chemical reactions, Ferbam, Thiram, Tricarboxylic acid cycle.

16964-68
EXTRACTION OF ORGANOCHLORINE AND ORGANOPHOSPHATE INSECTICIDES FROM LAKE WATERS.
H B Pionke J G Konrad G Chesters D E Armstrong
Analyst 93(1107):363-367
Jun 1968 382 AN1
Chlorinated hydrocarbons, Distilled water, Heptachlor, Insecticides, Organophosphorus compounds, Quantitative analysis, Water analysis.

16965-68
MULTIPLE DRUG RESISTANCE.
W A Royal R A Robinson R Hunter H MacDiarmid
New Zeal Vet J 16(1-2):20
Jan 1968 41.8 N483
Ampicillin, Antibiotics, Bactericides, Bacteriology, Chloramphenicol, Enterobacteriaceae, Furazolidone, Immunity, Livestock, Neomycin, Streptomycin, Tetracycline.

16966-68
GROWTH AND METABOLISM OF LIVE VACCINE STRAIN OF PASTEURELLA TULARENSIS.
J M Scharer F Klein R E Lincoln
Appl Microbiol 16(6):855-861 REF
Jun 1968 448.3 AP5
Ammonia, Culture media, Metabolism, Pasteurella tularensis, Physiology, Vaccines.

16967-68
IMIDOCARBONATES. PATENT 3,401,201.
E Walton
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10 Sep 1968 156.65 OF2
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